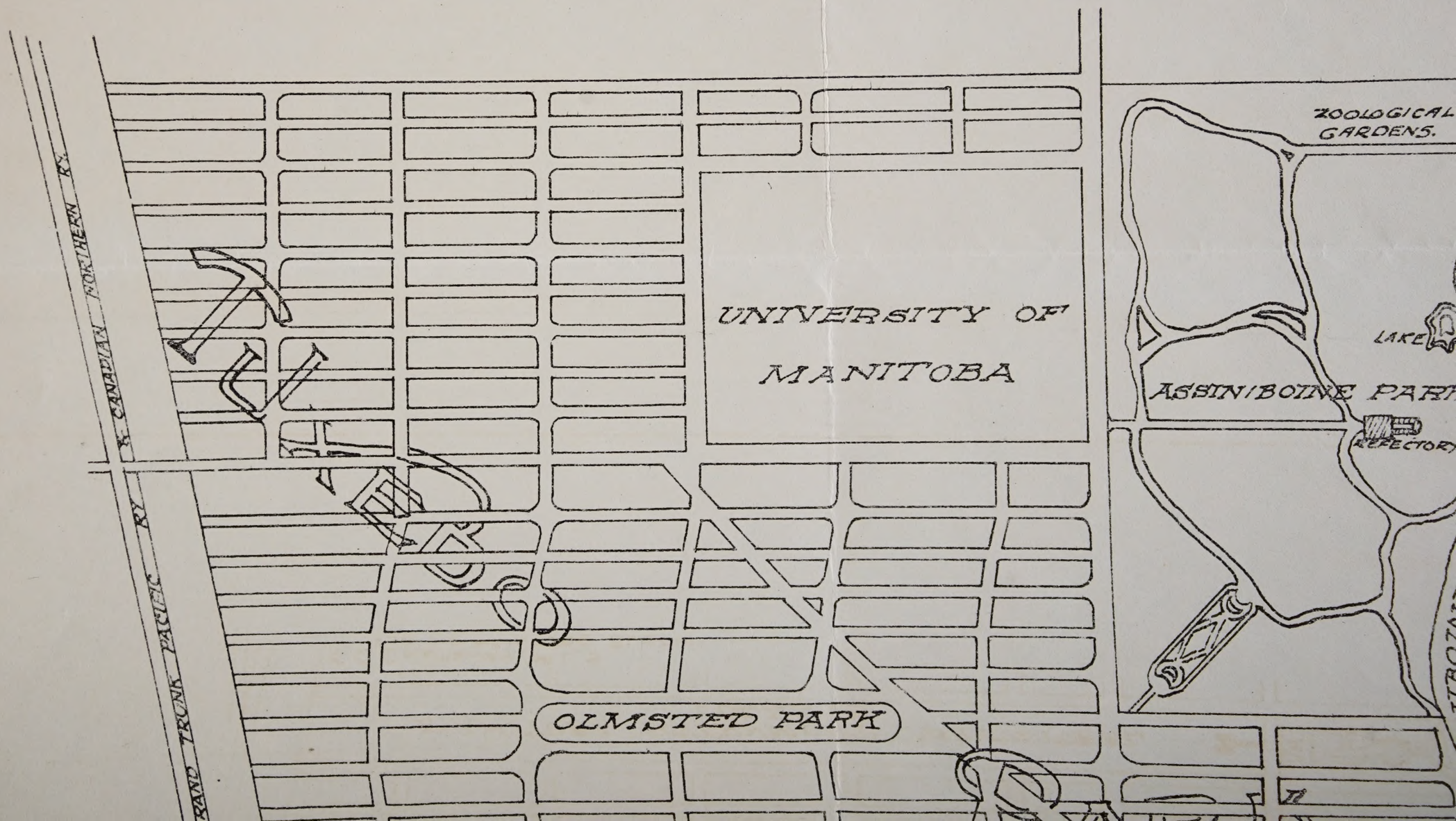
N
N. CANADIAN NORTHERN
GRAND TRUNK PACIFIC RY
UNIVERSITY OF
MANITOBA
OLMSTED PARK
ZOOLOGICAL
GARDENS.
LAKE
ASSINIBOINE PARK
RESERVOIR

ZOOLOGICAL GARDENS.

UNIVERSITY OF MANITOBA

OLMSTED PARK

LAKE

ASSINIBOINE PARK

REFECTORY.

ASSINIBOINE RIVER

UNIVERSITY OF MANITOBA

OLMSTED PARK

ASSINIBOINE PARK

LAKE

REFECTORY

ASSINIBOINE RIVER

MANITOBA GOVERNMENT AGRICULTURAL COLLEGE

C.C. CHATAWAY. M.L.S
208-212 McINTYRE BLOCK

UNIVERSITY OF MANITOBA

LAKE

ASSINIBOINE PARK

REFECTORY.

ASSINIBOINE

OLMSTED PARK

GRAND TRUNK PACIFIC RY

C. CANADIAN NORTHERN

MANITOBA GOVERNMENT AGRICULTURAL COLLEGE

C.C.CHATAWAY. M.L.S
208-212 McINTYRE BLOCK

UAA-1974-169-2100-009-004

Fram

"Maps"

B.G. Hamilton

no #

UAA-1974-16

FOR PLANS AND PRICES APPLY TO

Department of Natural Resources, Canadian Pacific Ry.

CALGARY, ALTA.

JAMES DUFF, General Townsite Agent.

ALLAN CAMERON, Supt. of Lands.

EDMONTON
Strathcona
Ellerslie
Otosk
Leduc
Kavanagh
Millet
Gwynn
Camrose
Wetaskiwin
Ohaton
Hobbema
Menaik
Ponoka
Morningside
Lacombe
Blackfalds
Red Deer
Penhold
Innisfail
Bowden
Olds
Didsbury
Carstairs
Crossfield
Airdrie
Glenbow
Keith
CALGARY
Turner
Shepard
Midnapore
De Winton
Sandstone
Okotoks
Aldersyde
High River
Blackie
Beiseker
Acme
Bartlett
Craigmyle
Swashine
Keoma
Nightingale
Dalroy
Beddington
Conrich
Inverlake
Cheadle
Langdon
Strathmore
Namaka
Stobart
Gleichen
Cluny
Crowfoot
Bassano
Latham
Southesk
Tudor
Standard
Chancellor
Hussar
Makepeace
Granta
Tees
Mirror
Bashaw
Donalda
Red Willow
Lea Hurst
Nevis
Stettler
Botha
Halkirk
Gadsby
Veldt
Castor
Fleet
Federal
Coronation
Throne
Veteran
Consort
Loyalist
Monitor
Nestor
Kinsella
Irma
Fabyan
Wainwright
Edgerton
Lougheed
Hardisty
Rosyth
Amisk
Hughenden
Czar
Metishow
Cairns
Cadogan
Provost
Hayter
Macklin
Evesham
Primate
Denzil
Salvador
Luseland
Broadacres
Baliol
Kerrobert
Ermine
Druid
Plenty
Stranraer
Herschel
Anglia
Rosetown
Sovereign
Milden
Rienzi
Bounty
Conquest
Outlook
Glenside
Lashburn
Maidstone
Cut Knife
Rockhaven
Cloan
Thackeray
Wilkie
St. Alfege
Reford
Pascal
Leipzic
Handel
Kelfield
Verulam
Revenue
Tramping Lake
Senlac
Ruhland
Swinbourne
Buccleuch
Adanac
Phippen
Wolfe
Traynor
Naseby
Castlewood
Vance
Keppel
Perdue
Rhyl
Dunfermline
Asquith
SASKATOON
Battleford
Denholm
Maymont
Radisson
Meath
Vegreville
Ireland
Wainwright
Viking
Bardo
Myrtle
Haight
Kingman
Dodas
Round Hill
Hobbema
Dimant
Bittern Lake
Duhamel
New Norway
Winnipeg
Ebberg
Edensville
Lassan
Bashaw
Mirror
Donalda
Red Willow
Lea Hurst
Nevis
Delburne
Lousana
Penn
Big Valley
Scollard
Perbeck
Huxley
Trochu
Ghostpine
Twining
Swalwell
Munson
Drumheller
Morrin
Rumsey
Rowley
Conrich
Tudor
Standard
Chancellor
Hussar
Makepeace
Granta
Bassano
Latham
Southesk
Cluny
Crowfoot
Gleichen
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Langdon
Midnapore
Shepard
Turner
Keith
Glenbow
Beddington
Conrich
Inverlake
Dalroy
Nightingale
Keoma
Swashine
Craigmyle
Bartlett
Acme
Beiseker
Airdrie
Crossfield
Carstairs
Didsbury
Olds
Bowden
Innisfail
Penhold
Red Deer
Blackfalds
Lacombe
Morningside
Ponoka
Menaik
Hobbema
Wetaskiwin
Camrose
Gwynn
Millet
Kavanagh
Leduc
Otosk
Ellerslie
Strathcona
Loshburn
Maidstone
Paynton
Brassylie
Battleford
Cut Knife
Rockhaven
Cloan
Thackeray
Wilkie
Phippen
Adanac
Buccleuch
Swinbourne
Ruhland
Senlac
Yonker
Vera
Edgerton
Wainwright
Fabyan
Irma
Kinsella
Nestor
Philips
Junkins
Killam
Daysland
Strome
Ohaton
Battle
Bardo
Myrtle
Haight
Viking
Vegreville
Meath
Lloydminster
Islay
Vermilion
Manville
Irmisfree
Round Hill
Kingman
Dodas
Hobbema
Dimant
Bittern Lake
Duhamel
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Winnipeg
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Veldt
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Consort
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Kinsella
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Fabyan
Wainwright
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Lougheed
Hardisty
Rosyth
Amisk
Hughenden
Czar
Metishow
Cairns
Cadogan
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Macklin
Evesham
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Broadacres
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Kerrobert
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Rhyl
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Asquith
SASKATOON
Battleford
Denholm
Maymont
Radisson
Meath
Vegreville
Ireland
Wainwright
Viking
Bardo
Myrtle
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Kingman
Dodas
Round Hill
Hobbema
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Bittern Lake
Duhamel
New Norway
Winnipeg
Ebberg
Edensville
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Big Valley
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Menaik
Hobbema
Wetaskiwin
Camrose
Gwynn
Millet
Kavanagh
Leduc
Otosk
Ellerslie
Strathcona
EDMONTON

Chap. 29-1903. 108 Miles.

Chap. 75-1912. Also 95-1908.

Chap. 59-1911. Also 70-1907.

Chapter 74-1907.

Chap. 79-1912.

Chapter 74-1907.

Chap. 74-1912.

Chap. 81-1910.

Chapter 74-1907.

Chap. 74-1912.

Chap. 74-1912.

Chap. 74-1912

FOR PLANS AND PRICES APPLY TO

Department of Natural Resources, Canadian Pacific Ry.

CALGARY, ALTA.

JAMES DUFF,
General Townsite Agent.

ALLAN CAMERON,
Supt. of Lands.

NEW TOWNS

IN

SASKATCHEWAN AND ALBERTA

ON THE

Canadian Pacific Railway.

THE TOWNSITES ON THIS YEAR'S CONSTRUCTION WILL EACH AFFORD EXCELLENT OPENINGS FOR THOSE LINES OF BUSINESS INCIDENT TO A NEW AND DEVELOPING COUNTRY

ATTENTION IS DIRECTED PARTICULARLY TO THE DIVISIONAL POINT

ASSINIBOIA

C. P. R. LINES UNDER CONSTRUCTION

AUGUST, 1912.

Chap. 59 - 1911 Alta. 74 - 1907

Chapter 78 - 1912

Chapter 59 - 1911

Chapter 74 - 1907

Chapter 59 - 1911

Chapter 78 - 1912

Chapter 59 - 1911

Chapter 74 - 1907

Chapter 59 - 1911

Chapter 78 - 1912

Chapter 59 - 1911

Chapter 74 - 1907

Chapter 59 - 1911

Chapter 78 - 1912

Chapter 59 - 1911

Chapter 74 - 1907

Chapter 59 - 1911

Stovel Company, Map Engravers and Publishers, Winnipeg

Federal
Coronation
Throne
Veteran
Loyalist
Consort
Monitor
Chap. 74 - 1911
Tramping Lake
Luseland
Broadacres
Baliol
Verulam
Kerrobert
Handel
Kelfield
Ermine
Druid
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Stranraer
Herschel
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SASKATOON
Dunfermline
Castlewood
Vance
Keppel
Perdue
Rhyl
Bigger
Loney
Luton
Thorne
Moultrain
Delisle
Laura
Tessier
Harris
Zealandia
Fiske
McGee
Harwell
Marengo
Kindersley
Netherhill
D'Arcy
Brock
Beadle
Pinkham
Tenmount
Sibbald
Alsask
Benton
Perbeck
Huxley
Big Valley
Scollard
Trochu
Ghostpine
Twining
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Ramsey
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Makepeace
Granta
Bassano
Lathom
Southesk
Cassils
Brooks
Bantry
Tilley
Kininvie
Carlstadt
Suffield
Bowell
Stair
MEDICINE HAT
Redlaw
Chap. 78 - 1912
Chap. 59 - 1911
Chap. 74 - 1911
Chap. 59 - 1911
Chap. 74 - 1911
Chap. 59 - 1911
Chap. 74 - 1911
Pashley
Coleridge
Irvine
Walsh
Cummings
Forres
Kincorth
Mackid
Maple Creek
Cardel
Crane Lake
Cross
Piapot
Sidewood
Tompkins
Carmichael
Gull Lake
Antelope
Webb
Seward
Beverly
Swift Current
Dunelm
Wymark
Blumenhof
Neville
Pambrun
Vanguard
Waldeck
Hikins
Notman
Rush Lake
Herbert
Morse
Empress
Uran
Contuar
Success
Battrum
Pennant
Cabri
Shackleton
Abbey
Lancer
Portreeve
Lemsford
Sceptre
Prussia
Westerham
Prelate
SASKATCHEWAN
SOUTH
RIVER
BED
DEER
RIVER
Aneroid
Hazenmore
Woodrow
Kincaid
Heyronne
Bow Island
Winnifred
Bulls Head
Whitla
Seven Persons
Purple Springs
Grassy Lake
Burdett
Taber
Reliance
Coaldale
Cbin
LETHBRIDGE
Wilson
Stirling
Wrentham
Judson
Conrad
Skiff
Raymond
Magrath
New Dayton
Warner
Milk River
Coutts
Spring Coulee
Raley
Woolford
Cardston
Foremost
Brocket
Pinher
Peigan
I.R.
Chokio
Macleod
Monarch
Pearce
Woodhouse
Granum
Claresholm
Stavely
Parkland
Champion
Carmangay
Barons
Noble
Kirkcaldy
Vulcan
Ensign
Brant
Blackie
High River
Cayley
Nanton
Aldersyde
Okotoks
Sandstone
De Winton
Midnapore
Langdon
Shepard
Turner
Keith
Glenbow
Beddington
Conrich
CALGARY
Inverlake
Strathmore
Cheadle
Namaka
Stobart
Gleichen
Cluny
Crowfoot
I.R.
Bow River
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Chap. 74 - 1911
Meridian
Fourth
Meridian
Bow River
Chap. 74 - 1911
Chap. 59 - 1911
Chap. 74 - 1911
Chap. 59 - 1911
Chap. 74 - 1911
Chap. 59 - 1911

Calgary, Alta., 1st June 1910.-F.

Dear Sir:

The attached graphs No. 24 & 25 illustrate the relative advantages of Calgary and Edmonton as centers for conventions, fairs or other large assemblies which attend such functions, also the production etc., in the areas of which the respective centers are the closest thereto. The graphs are chiefly comparison for Alberta but on the bottom of graph No. 24 you will also find comparisons as centers for points in British Columbia; Alberta; Saskatchewan; Alberta and British Columbia combined; Alberta and Saskatchewan combined; and Alberta, British Columbia and Saskatchewan combined.

No. 24 showing the relative position of Calgary and Edmonton based on the population of which the two points are the nearest by railways at present constructed even if to reach some one had to utilize two or more lines, see Legend. This I had to base on the Urban Population as it would have been somewhat difficult to have taken out the Rural, and further the majority of the Railway Passenger Traffic comes from or through the said Urban points so that in that respect I think the comparison is a fair one.

No. 25 divides the Province into two portions, one all south of township 39, and the other all north of township 38. The Legend shows why that line was adopted. The latter however is again subdivided into two parts, one that portion lying north of township 56 and south of the North Saskatchewan River and the other subdivision embracing all north of said river, see Legend. These graphs represent the conditions by percentages and also by Per Capita, the latter based on total population and non urban.

Trusting this will be of interest and possibly of value to you.

Yours truly,

Wm. Pearce.

I N D E X

Graph 22. Alberta (Southern) showing as units each.

Graph 24 & 25. Showing Calgary and Edmonton as centres.

Graph 26. Saskatchewan showing as units each Municipality, Local Improvement District, and area which will eventually become Local Improvement Districts and afterwards Municipalities.

Graph 27. Manitoba, Saskatchewan and Alberta showing as units each Municipality, Local Improvement District and area which will eventually become Local Improvement Districts, and afterwards Municipalities.

Graph 28. Manitoba showing as units each Municipality, Local Improvement District, and areas which will eventually become Local Improvement Districts and afterwards Municipalities.

Graph 34. Coal Resources 1917 - Alberta and Saskatchewan.

Graph 35. Automobile Licenses, Alberta 1917.

Graph 43. Manitoba, Saskatchewan and Alberta showing as units each Municipality, Local Improvement District, and areas which will eventually become Local Improvement Districts and afterwards Municipalities.

46 Production & Supply of coke Calg. Edmont. & Med Hat

Graph 47. Natural Gas Co's of U.S.A. and Canada.

Graph 48. Bi-Product Coke Ovens.

(Graph 50) Coal Statistics - Alberta 1918.
(Graph 50 Part 2)

Graph #51 coal Mining Properties and Topography along the main line of C.P.R. and Crow's Nest Branch in Western Alta. and Eastern B.C.

Graph 51A. Coal Areas Western Canada.

Graph 52. Output of Coal in Alberta.

Graph 53. Output of Coal in Alberta, 1917 - 1918- 1919.

Graph 54. Spartan Oil Co. Map showing location of
Graph 56. Index to townships Man. Sask. Alberta
Graph 60. Mountain (Contours)
Graph 61. Foothills Region (Topog.)
Graph 62. Township Sheets
Graph 64. Southern Alberta, Bituminous Coal fields
Graph 65. Southern Alberta Coal Mines
Graph 66. Total Output of Coal in Alberta 1920
Graph 67. Coal Fields Drumheller
Graph 68. Calgary Petroleum Products Co.
Graph 69. Index to Sectional Sheets and Dates for same
Graph 70. William Pearce Irrigation Scheme.
Graph 71. Alberta Grain Statistics for 1921
Graph 72. Total outpyt of Coal in Alberta 1921.
Graph 73. Maps for Calgary Historical Society
Graph 74. Total output of Coal in Alberta 1922
Graph 75. Port Moody, mud flats, re grain shipments, etc.
Graph 76. Menace of Weeds to Spring Wheat Raising.
Graph 77. Discharge of Bow and Elbow Rivers.
Graph 78 Coal Output for Alberta for 1923
Graph 79 Coal Output for Alberta for 1924

see also ... 66 the graph 66 is 67. 51A is not the same as 79 — a new graph is not the same

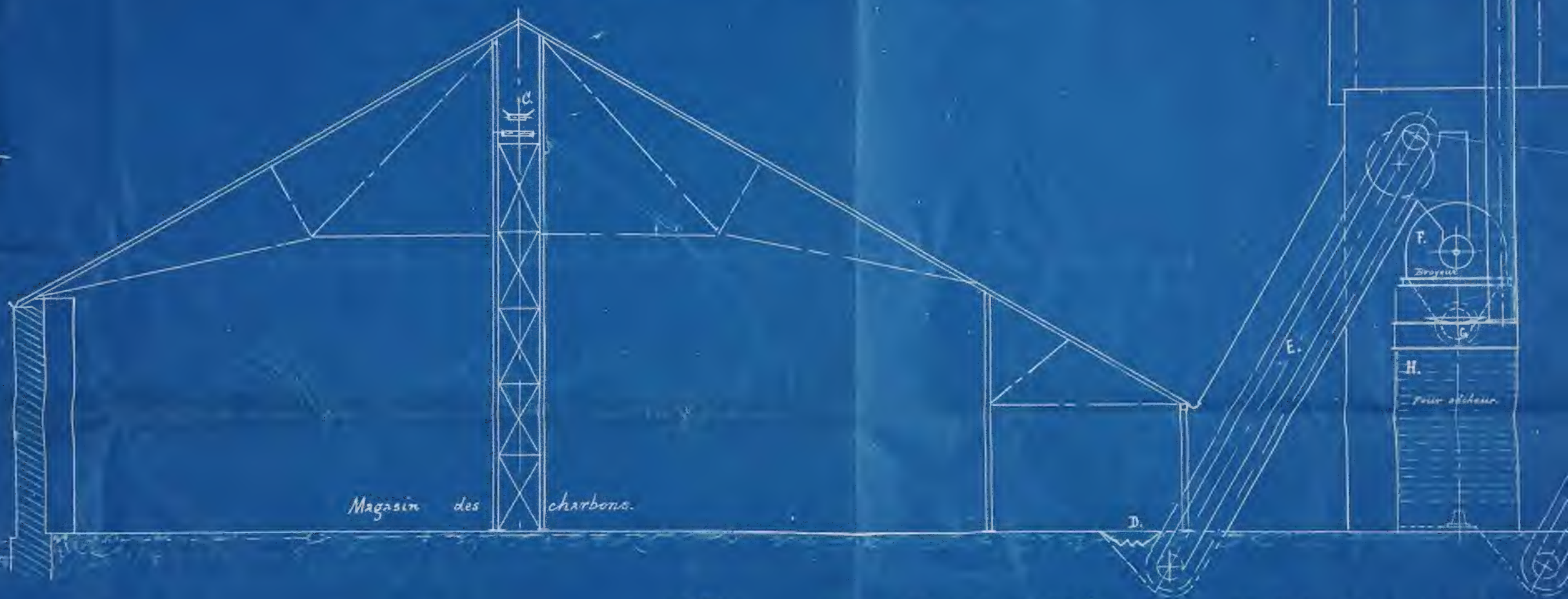
H. STEVEN
INGENIEUR
4 AOUT 1921
GILLY

Briquettes sortant des presses
et allant au chargement.

H. STEVEN
INGÉNIEUR
4 AOUT 1921
GILLY

FABRIQUE DE BRIQUETTES SYSTÈME STEVEN BREVETÉ.

Production par heure: 10 tonnes de briquettes de 5 kilos.



A Trémie receptrice des charbons avec crible séparateur du gros.
B Chaine élevant les charbons au transporteur du magasin.
C Transporteur des charbons au magasin.
D Transporteurs doseurs (un pour le gros et l'autre pour le maigre).
E Chaine à godets élevant le charbon au Broyeur.
F Broyeur Carr.
G Vis transporteuse du charbon broyé vers le four.
H Four sécheur à vapeur

I Elevateur à godets amenant le charbon séché à la trémie du doseur.
J Trémie du doseur de charbon avec indicateurs de niveau.
K Doseur du charbon.
L Mélangeur de charbon avec le brai.
M Elevateur du mélange vers le distributeur du malaxeur.
N Distributeur du malaxeur.
O. Malaxeur.
P Sole refroidisseur de la pâte

Q Vis transporteuse de la pâte vers les
R Distributeurs des presses.
S Presses à compressions multiples.
T Transporteur général de briquettes.
U Transporteurs de briquettes pour le
V Générateurs de vapeur.
X Surchauffeur de id.
Y Séparateur d'eau de condensation.

Transporteur général de briquettes

Échelle 1/50.

	a Bascule pour le brai.	h Transmission.	
	b Concasseur du brai.	j Moteur électrique.	
	c Broyeur du id	k id id des presses.	
	c' élévateur du id.	l Transmission	
	d Doseur du brai.	m m. id des transporteurs.	
	e Elevateur du id.	p Grue pour décharger et charger.	
	f Couloir du id vers le mélangeur	q Bascule automatique de la grue	
	g Moteur électrique p' charbon.	r id pour et la voie.	

No 3651

N.

O.

Malaxeur.

P.

Q.

R.

S.

Presse.

T.

U.

Transporteur general de briquettes.

k.

k.

M.

Echelle 1/50.

...

...des presses.

...transporteurs.

...arger et charger.

...mentation de la grue.

...crue.

H. GOSSEN
INGENIEUR
4 NOV 1901
LIEGE

SOCIETE ANONYME
MACHINES ET PROCEDES
POUR
AGGLOMERES
LIEGE

Cheminée.

8.700

Chaudière. V.

X.
Surchauffeur.

Chaudière. V.

M.

N

O.

P

Q.

S.

R.

T.

k.

l.

m.

n.

j

Vue générale en plan.

145 mètres

Bureau et Laboratoire

Cheminée

Magasin des charbons ± 4 500 Tonnes

Bascule

Passerelle de déchargement de grues

Boulevard

Chemin de Fer.

ESCAUT

S Presses à compressions multiples.
T Transporteur général de Briquettes.
U Transporteurs de Briquettes pour la mise en tas.
V Générateurs de vapeur.
X Surchauffeur de id.
Y Séparateur d'eau de condensation.

c Broyeur de id.
c' élévateur du id.
d Doseur du brai.
e Elevateur de id.
f Couloir du id vers le mélangeur.
g. Moteur électrique pr charbon.

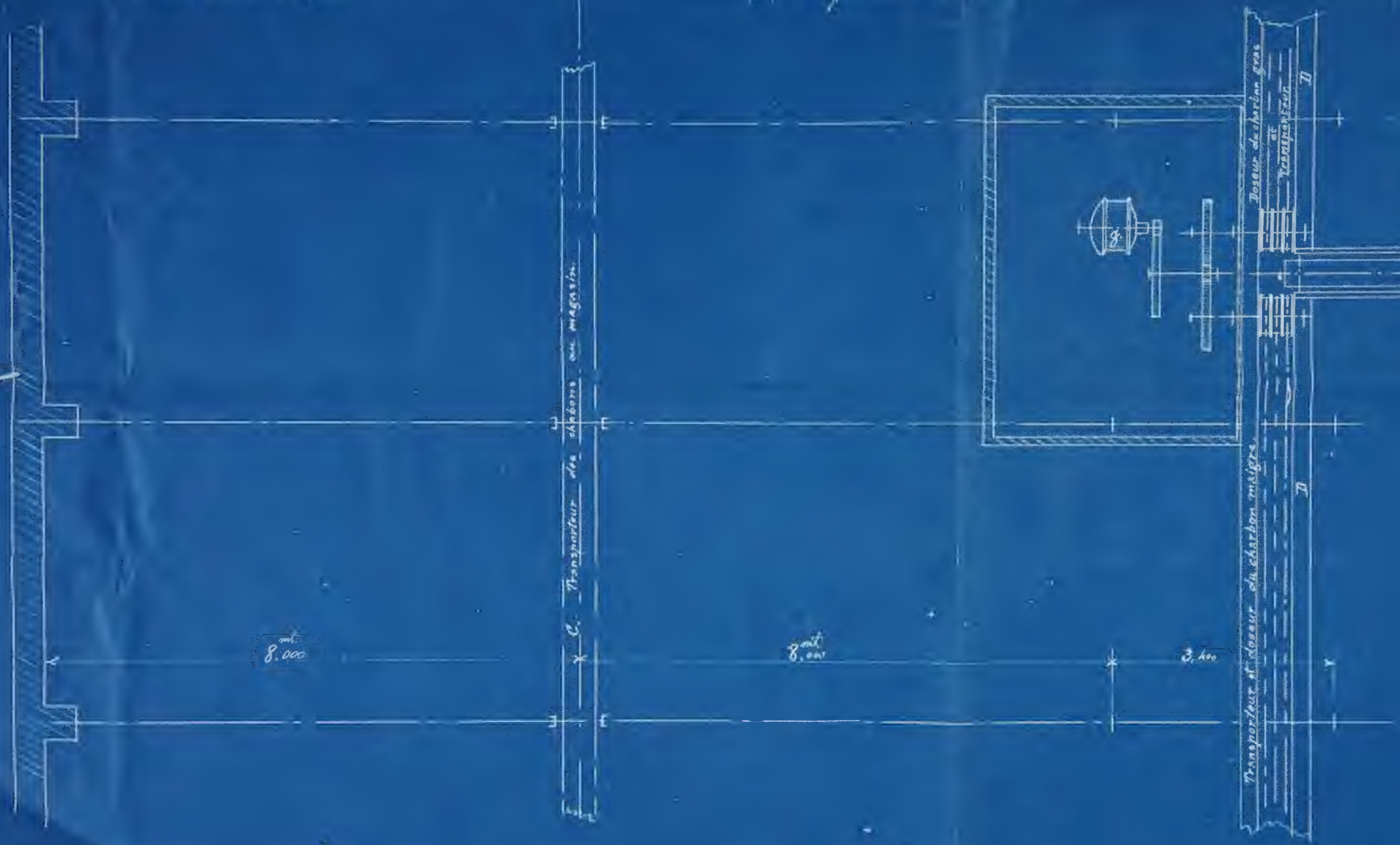
k id id des presses.
l Tranemission.
m.n. id des transporteurs.
p Grue pour décharger et charger.
q. Bascule automatique de la grue
r. id fixe de la voie.

E
F
G
H.
I.
J.
K.
L.
M.
N.
O.
P
Q.
R.
S.
T.
h.
f
k.
b.
c.
c'
d.
e.
6.000
12,000
7,000
8.700
Cheminée.
Cave au brai.
Chaudière. V.
X.
Surchauffeur.
Chaudière. V.

C Transporteur des charbons au magasin
D Transporteurs doseurs (un pour le gras et l'autre pour le maigre).
E Chaine à godets devant le charbon au broyeur.
F Broyeur Carr.
G Vis transporteuse du charbon broyé vers le four.
H Four sécheur à vapeur.

K Doseur du charbon.
L Mélangeur du charbon avec le brai.
M Elevateur du mélange vers le distributeur du malaxeur.
N Distributeur du malaxeur.
O. Malaxeur.
P Sole refroidisseur de la pâte.

S Presses à compressions multiples.
T Transporteur général de briquettes.
U Transporteurs de briquettes pour la
V Générateurs de vapeur.
X Surchauffeur de id.
Y Séparateur d'eau de condensation.



SOCIETE ...
MACHINES ET PROCEDES
POUR
AGGLOMERER
("STEVEN")
A GILLY

H. STEVEN
INGENIEUR
1921
GILLY

VAA-iw14-104-210A-010-025

COAL STATISTICS 1917

CANADIAN PACIFIC RAILWAY COMPANY

COLONIZATION AND DEVELOPMENT BRANCH

MAP OF

SASKATCHEWAN AND ALBERTA

Scale - 35 Miles to 1 Inch

J. S. DENNIS
CHIEF COMMISSIONER

COMPILED BY W. PEARCE
Calgary 19th AUG 1918.

№ 34

LEGEND

1 Circle for each 1% then 229·57 for the largest the Crows Nest Pass Coal Field 127·1 for the Drumheller Field and 119·2 for Lethbridge.

For ·09 = ·08 = ·07 = ·06 = ·05 = ·04 = ·03 = ·02 = ·01 =

32 Coal Mining Districts

ANNUAL INCREASE IN TONNAGE - 2000 lbs. = 1 Ton

DOMESTIC COAL PRODUCED — IMPORTED COALS

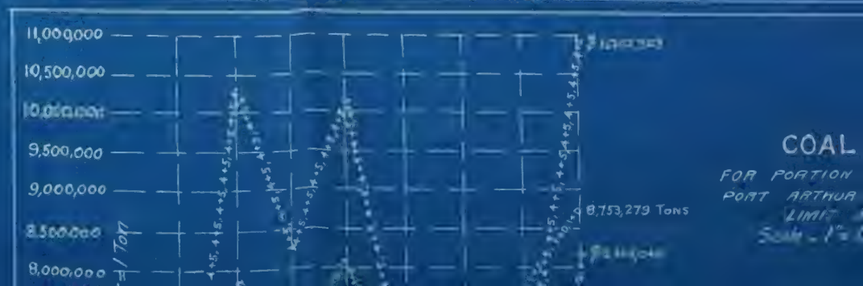
YEAR	CANADA	% OVER 1916	ALTA.	% OVER 1916	ALTA & SASKS.	% OVER 1916	ANTHRACITE	% OVER 1916	BITUMINOUS	% OVER 1916	ANTHRACITE & BITUMINOUS	% OVER 1916	ALL COALS DOMESTIC & IMPORTED	
1910	15,931,913		2,662,941		2,787,894		361,215		1,917,856		2,279,051		5,066,945	
1911	18,038,505	13	1,470,681	-44·76	1,620,824	-41·86	338,499	-6·28	1,916,263	(-0·08)	4,494,760	97·2	6,115,263	20·74
1912	17,388,931	-3	2,879,931	95·91	3,143,360	12·54	536,762	48·60	3,017,218	57·38	3,553,980	55·9	6,697,341	72·13
1913	20,836,436	17·4	3,117,864	41·84	3,962,478	42·14	685,621	89·81	3,518,100	83·49	4,203,721	73·13	8,166,199	69·73
1914	22,457,570	47·8	3,317,269	25·80	3,541,839	26·08	543,570	50·48	2,026,513	5·69	2,570,083	12·7	6,111,921	20·83
1915	20,667,687	36·0	3,086,563	17·10	3,293,260	18·12	356,007	-1·44	2,293,413	19·70	2,655,420	16·5	5,948,680	17·40
1916	27,000,000	77·7	4,244,075	61·01	4,514,075	61·92	583,943	61·66	2,591,000	36·34	3,174,943	39·2	7,689,018	22·16
1917	33,456,566	120·2	4,863,411	84·51	5,197,977	86·46	566,418	56·85	3,415,526	78·09	3,981,939	74·6	9,179,916	80·17
Total	171,676,180		26,347,447		28,663,625		4,172,028		21,918,886		26,090,914		54,977,823	
Average	24,525,168	41·1	3,763,921	29·25	4,094,803	28·89	596,004	49·14	3,073,269	48·53	3,727,273	47·21	7,853,974	35·18

ALBERTA AND SASKATCHEWAN COAL OUTPUT 1917

with Authority given from the Analyses of Mines

№	DISTRICT	OUTPUT IN TONS 2000 LBS	PERCENTAGE OF TOTAL OUTPUT FOR THE TWO PROVINCES	M	V	F	A	B.T.U.	X	AUTHORITY
	LIGNITE									
1	Pincher Creek	6,804	0·1309	3·8	28·96	39·47	28·57	9,810	1·2	C
2	Lethbridge	613,850	11·9243	7·3	34·54	41·43	16·73	11,710	9·5	C C
3	Macrath	1,011	0·0194	7·30	38·01	36·75	11·33	11,881		C E
4	Milk River	9,140	0·1758							
5	Taber	175,666	3·3794	14·7	31·73	44·16	12·46	11,040	1·3	C
6	Bow Island	6,846	0·1321	17·26	30·30	46·27	5·17	9,259		G
7	Medicine Hat	14,846	0·2855	16·22	33·58	41·35	8·08			
8	Aldersyde - 1	7,999	0·1412	17·3	32·85	42·35	7·5	8,833		G
	" - 2			10·8	30·81	50·35	7·3	9,807		G G
				9·85	33·41	50·13	6·27	10,411		G
9	High River	1,036	0·0211	2·33	31·37	58·53	7·87			E
10	Drumheller	660,974	12·7153	9·5	33·6	48·6	6·5	9,650		G
11	Big Valley - 1	29,697	0·5731	12·97	39·08	44·39	8·58			G
	" - 2			15·85	28·34	42·36	13·15			G
12	Brooks	8,283	0·1593	11·43	34·14	45·23	8·80	9,956		E
13	Hanna	26,054	0·5013							
14	Lacombe - 1	18,223	0·3505	14·10	31·17	45·13	12·60	8,914		G
	" - 2			14·8	30·35	47·3	6·95	9,872		G G
15	Trochu	14,131	0·2718	12·2	32·1	43·30	6·40	10,002		G G
16	Three Hills	24,874	0·4785	11·70	30·38	50·35	6·12	10,457		G G
17	Carbon	4,615	0·0888	11·57	28·64	51·21	7·79			E G
18	Battle River - 1	10,544	0·2028	13·0	29·17	49·38	8·45	9,744		G G
	" - 2			17·0	27·10	44·40	10·50	8,794		G G
19	Camrose - 1	61,293	1·1789	13·50	31·35	44·37	8·1	9,250		G D
	" - 2			14·3	30·42	46·42	7·6	9,472		G D
20	Tofield	71,510	1·3757	15·0	29·0	36·7	8·5	7,986		D
21	Clover Bar	263,857	5·0745							
22	Edmonton	120,519	2·3180	10·33	32·62	48·42	8·25	11,000	3·93	C
23	Namao	19,406	0·3732							
24	Cardiff	257,453	4·9531	20·0	31·0	41·0	8·0	8,770		D
25	Wabamun	19,007	0·3656	16·4	31·52	43·18	6·9	9,234		G
26	Pembina	84,349	1·6227	M. 16·2	27·6	43·18	10·3	not given		D
27	Peace River	223	0·0042	11·170	31·18	49·18	8·4	9,040		D
	BITUMINOUS									
28	Crows Nest Pass	1,181,313	22·9570	4·27	20·16	72·41	16·62	12,410	·58	C
29	Canmore	196,233	3·7751	1·12	15·41	80·05	3·62			E
30	Brazeau - 1	266,897	5·1347	2·44	17·20	63·18	13·43	13,204		G
	" - 2			2·53	17·37	66·09	15·40	12,634		G
	" - 3			2·45	16·43	63·32	12·00	13,426		G
31	Jasper Park	230,079	4·8001	2·10	16·50	67·40	21·40	11,590		G
32	Yellowhead Pass - 1	142,949	2·8270	3·90	16·2	68·80	10·98	10,930		G
	" - 2			3·26	23·1	53·48	1·16	11,220		G
33	Mountain Park	153,397	2·9511	3·26	30·60	62·40	4·30	14,210		G
	ANTHRACITE									
34	Banff	118,717	2·2855	2·6	13·72	72·53	13·35	13,640	·05	C
	SASKATCHEWAN									
	LIGNITE									
1	N.T.	2,916	0·0672	20·29	37·41	34·35	16·95			E
	" - 2			21·44	35·12	38·64	4·40			E
2		265,906	5·1167	16·09	34·38	39·63	5·78	10,690	10·60	C
3		68,668	1·1862	18·2	29·82	37·64	14·33		12·70	C
4		5,036	0·0965	13·23	38·91	39·54	8·32			E

C = McGill University, Investigation by Porter, Durley & Others. № 83 Vol 5
D = Mines Branch. № 331 - 1915
E = Memoir 55. № 44. Geo. Surv. D. B. Dowling 1914.
G = Various Sources believed by Compiler as fairly reliable.
M = Moisture, V = Volatile Combustible, F = Fixed Carbon, A = Ash, B.T.U. = British Thermal Units, X = Loss in Air Drying



ALBERTA AND SASKATCHEWAN COAL OUTPUT 1917

with Authority given from the Analyses of Mines

8

No	DISTRICT	OUTPUT IN TONS 2000 LBS	PERCENTAGE OF TOTAL OUTPUT FOR THE TWO PROVINCES	M	V	F	A	B.T.U	X	AUTHORITY
	LIGNITE									
1	Pincher Creek	6.804	0·1309	3·8	28·96	38·67	28·57	9,810	1·2	C
2	Lethbridge	619.850	11·9243	7·9	34·54	47·43	10·13	11,710	0·5	C
3	Magrath	1.011	0·0194	3·91	38·01	46·75	11·33	11,887		E
4	Milk River	9.140	0·1758							
5	Taber	175.666	3·3794	11·7	31·79	44·06	12·45	11,040	1·3	C
6	Bow Island	6.846	0·1321	17·26	30·90	46·27	5·57	9,259		E
7	Medicine Hat	14.846	0·2855	(20·22	33·10	41·36	5·12			E
8	Aldersyde - 1	7.339	0·1412	10·9	30·55	51·25	7·3	9,807		G
	" -2			9·85	33·45	50·43	6·27	10,411		G
9	High River	1.096	0·0211	2·33	35·27	56·53	5·87			E
10	Drumheller	660.974	12·7153	16·5	33·6	43·4	6·5	9,650		D
11	Big Valley - 1	23.697	0·5731	12·07	30·02	44·33	8·58			G
	" -2			15·05	28·94	42·30	13·75			G
12	Brooks	8.283	0·1593	11·43	34·75	45·03	8·80	9,956		E
13	Hanna	26.064	0·5013							
14	Lacombe - 1	18.223	0·3505	14·70	31·17	49·03	12·10	8,714		G
	" -2			14·8	30·35	47·9	6·95	9,372		G
15	Trochu	14.131	0·2718	12·2	32·1	49·30	6·40	10,002		G
16	Three Hills	24.674	0·4745	11·70	30·35	51·85	6·12	10,417		G
17	Carbon	4.815	0·0889	11·37	35·64	45·21	7·78			E
18	Battle River - 1	10.544	0·2028	13·0	33·75	46·59	6·66	9,744		G
	" -2			17·17	31·18	41·49	10·50	8,794		G
19	Camrose - 1	61.293	1·1789	18·30	31·85	44·75	5·1	9,250		G
	" -2			15·3	30·50	45·52	7·6	9,472		G
20	Tofield	71.510	1·3757	25·0	29·8	36·7	8·5	7,990		D
21	Clover Bar	263.857	5·0743							
22	Edmonton	120.519	2·3180	18·37	32·61	40·18	8·25	11,000	3·93	C
23	Namao	19.406	0·3732							
24	Cardiff	257.459	4·9531	20·8	31·6	40·4	8·0	8,770		D
25	Wabamun	19.007	0·3656	16·4	31·52	45·18	6·9	9,234		G
26	Fembina	84.340	1·6227	11.18·2	27·6	43·9	10·3	not given		D
27	Peace River	223	0·0042	17·0	32·8	43·8	6·4	9,860		B
	BITUMINOUS									
28	Crows Nest Pass	1.133.313	22·9570	4·77	26·10	58·41	16·62	12,410	0·8	C
29	Canmore	196.233	3·7751	1·02	13·41	82·02	3·62			E
30	Brazeau - 1	266.897	5·1347	0·44	17·01	69·12	13·43	13,204		G
	" - 2			0·63	17·91	68·09	13·40	12,834		G
	" - 3			0·45	17·63	69·92	12·00	13,426		G
31	Jasper Park	250.079	4·8001	2·30	18·50	57·80	21·40	11,580		G
32	Yellowhead Pass - 1	146.943	2·8270	5·80	35·2	48·00	10·90	10,930		G
	" -2			9·20	29·7	53·40	7·30	11,280		G
33	Mountain Park	153.397	2·9511	3·20	30·50	62·00	4·30	14,210		G
	ANTHRACITE									
34	Banff	118.117	2·2855	1·6	13·75	72·30	13·35	13,640	0·5	C
	SASKATCHEWAN									
	LIGNITE									
1		2·376	0·0572	20·23	27·41	31·33	16·95			E
				21·84	35·10	38·61	4·40			E
2		265.806	5·1163	16·48	34·31	39·63	9·58	10,830	12·63	C
3		60.668	1·1662	18·2	34·85	37·64	11·60	9,650	12·70	C
4		5.036	0·0965	13·13	38·91	38·56	8·22			E

C = McGill University, Investigation by Porter, Durley, & Others. No 83 Vol 13
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E = Memoir 53, No 44, Geo. Surv. D. B. Dowling 1914
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9

COAL STATISTICS

FOR PORTION OF CANADA EXTENDING FROM PORT ARTHUR ON THE EAST TO THE WESTERN LIMIT OF ALBERTA ON THE WEST.

Scale - 1" = 1,500,000 tons or 1,500,000 Dollars

COAL STATISTICS 1917

IMPORTED COALS

IMPORTED COALS

Authority - Customs Returns. These Returns are for year ending 31st March. In schedule the returns for 31st March 1911 is given for Calendar year 1910 and so on, so as to correspond with the Domestic Coal Returns.

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YEAR ENDING 31st March	ANTHRACITE TONS 2240 lbs.	ANTHRACITE VALUE	ANTHRACITE COST PER TON	BITUMINOUS TONS 2240 lbs.	BITUMINOUS VALUE	BITUMINOUS COST PER TON
1910	322,513	$ 1,601,226	$ 4·692	1,712,354	$ 3,644,037	$ 2·128
1911	480,802	2,392,962	4·977	3,532,377	6,013,840	2·266
1912	479,252	2,561,759	5·357	2,693,945	5,610,116	2·072
1913	672,162	3,230,493	5·290	3,141,161	6,963,437	2·217
1914	485,330	2,560,341	5·275	1,809,387	3,783,988	2·091
1915	317,864	1,712,057	5·386	2,053,041	2,376,931	1·219
1916	521,378	2,922,834	5·316	2,313,393	3,144,466	1·359
1917	506,725	3,054,915	6·040	3,043,577	8,148,048	2·672

It is presumed that the foregoing tonnage is a ton of 2240 lbs. For the purposes of comparison, with the tonnage from local producing mines, 12% has to be added thereto and for comparison of prices based on 2000 lbs. per ton divide the above prices by 1·12.

4 **TONNAGE & VALUES OF THE FOREGOING**

YEAR ENDING 31st March	TOTAL TONNAGE	TOTAL VALUE	% TONNAGE OVER 1910	% VALUE OVER 1910	% TONNAGE ANTHRACITE IS OF THE WHOLE	% VALUE ANTHRACITE IS OF THE WHOLE
1910	2,034,867	$ 5,245,263			15·8	30·5
1911	4,013,180	10,406,810	97·2	98·4	11·98	22·99
1912	3,173,197	8,177,875	55·9	55·9	15·1	31·4
1913	3,753,323	10,193,930	79·3	94·4	16·3	35·1
1914	2,294,717	6,344,329	12·7	20·9	21·15	40·3
1915	2,370,911	4,088,988	16·5	−22·65	13·4	11·8
1916	2,834,771	6,067,300	39·3	15·6	18·37	48·17
1917	3,550,302	11,202,963	74·6	113·5	14·22	27·27

Anthracite Tonnage of 1917-18 = 97%. Total Cost 10·45%. Cost per ton 113·6% of the preceding year
Bituminous " " = 131·8%. " 259·1 % " 196·6% " " "

ANALYSIS OF THE FOREGOING

5

ANTHRACITE

	M	V	F	A	B.T.U.	X
30 Carload Lots, Pp. 110	3·30	3·80	84·00	8·40	13,000 lb	
Lehigh, 5 Samples, Pp 112 & 113	1·65	3·93	83·76	11·85	14,000	
BITUMINOUS						
MARYLAND						
Georges Creek, 3 Samples, Pp 107	1·95	12·52	79·45	5·43	13,536	not given
OHIO						
4 at bottom of Pp. 109	6·28	36·38	48·41	8·93	11,948	3·55
Georges Run Pp. 110	2·86	35·84	52·35	8·95	not given	3·80
PENNSYLVANIA						
Ellsworth, 3 Samples, Pp. 111	1·58	39·86	50·85	5·79	14,072	1·98
WEST VIRGINIA						
Bretz, 3 Samples, Pp 119	2·78	27·53	60·77	8·88	13,793	1·87
Clarksburg, 2 Samples, Pp 119	1·14	30·93	57·33	9·57	13,883	0·70
Page, 2 Samples, Pp 118	4·45	30·87	60·14	3·58	14,279	2·87

Authority - Memoir 53 No 44 Geo. Surv. D. B. Dowling

TOTAL TONNAGE AVAILABLE FOR PUBLIC CONSUMPTION

Adding 12% to Imported tonnage of 2240 lbs. per ton to represent the number of tons of 2000 lbs.

6

	1910	% OF WHOLE	1911	% OF WHOLE	1912	% OF WHOLE	1913	% OF WHOLE
Imported Coals	2,279,084	44·981	4,494,752	73·472	3,553,971	53·065	4,203,722	51·477
Saskatchewan "	151,929	2·998	151,929	2·484	151,929	2·269	224,570	2·750
Alberta "	2,635,905	52·022	1,470,881	24·044	2,991,431	44·666	3,737,908	45·773
Total Coals	5,066,918	100·001	6,117,562	100·000	6,697,331	100·000	8,166,200	100·000

	1914	% OF WHOLE	1915	% OF WHOLE	1916	% OF WHOLE	1917	% OF WHOLE	TOTAL OF THE 8 YEARS	% OF WHOLE
Imported Coals	2,570,082	42·051	2,655,420	44·639	2,174,943	40·01	3,381,359	53·314	30,530,593	49·355
Saskatchewan "	224,570	3·674	206,627	3·474	270,084	4·966	354,700	5·592	1,716,184	2·774
Alberta "	3,317,268	54·276	3,086,483	51·886	4,244,277	78·024	3,607,441	56·894	26,547,443	42·871
Total Coals	6,111,921	100·001	5,948,670	99·999	7,683,018	100·000	9,179,315	100·000	54,977,582	100·000

7 *Increase in tonnage of Output in 1917 over 1916, Saskatchewan* 25·60 %
" " " " " *Alberta* 15·04 %
" " " " " *Total* 19·47 %

31	Jasper Park	250,079	4·8001	0·45	17·63	69·92	12·00	13,426		G
32	Yellowhead Pass. 1	146,949	2·8270	2·30	18·50	57·80	21·40	11,590		G
	" -2			5·90	35·2	48·00	10·34	10,530		G
33	Mountain Park	158,397	2·9511	9·20	29·7	53·46	7·58	11,280		G
	ANTHRACITE			3·20	3·60	62·08	4·30	14,210		G
34	Banff	118,717	2·2855	0·6	13·75	72·30	13·35	13,640	0·5	C
	SASKATCHEWAN									
	LIGNITE									
1	No 1									E
2	- 2	2·976	0·0572	20·29	9·41	31·95	16·35			E
3		265,886	5·1167	18·00	34·38	30·63	5·78	10,690	10·60	C
4		60,668	1·1662	18·2	29·84	27·54	11·68	8·451	12·7m	C
		5,036	0·0965	13·73	38·91	18·54	8·82			E

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M = Moisture — A = Ash
V = Volatile Combustible — B.T.U = British Thermal Units
F = Fixed Carbon — X = Loss in Air Drying

5

ANTHRACITE

	M	V	F	A	B.T.U	X
30 Carload Lots. Pp 110	3·50	3·80	84·00	8·40	13,200 lbs	
Lehigh. 5 Samples. Pp 112-113	1·88	3·92	80·76	9·35	14,444	

BITUMINOUS

MARYLAND						
George's Creek. 3 Samples. Pp 107	1·85	12·32	78·45	7·49	14,064	not given
OHIO						
4 at bottom of Pp. 109	4·28	34·58	48·41	8·53	12,848	3·15
Georges Run Pp. 110	2·86	35·64	52·35	9·15	not given	3·80
PENNSYLVANIA						
Ellsworth. 3 Samples. Pp. 111	1·58	36·46	56·83	5·73	14,012	1·40
WEST VIRGINIA						
Brety. 3 Samples. Pp 119	2·78	37·13	54·71	5·36	13,393	1·83
Clarksburg. 2 Samples. Pp 119	1·74	38·93	57·32	2·02	13,883	0·20
Page. 2 Samples. Pp. 119	4·46	36·67	51·94	6·93	14,238	2·85

Authority. Memoir 53. No 44 Geo. Surv. O. B. Dowling

6

TOTAL TONNAGE AVAILABLE FOR PUBLIC CONSUMPTION

Adding 12% to Imported tonnage of 2240 lbs. per ton to represent the number of tons of 2000 lbs.

	1910	% OF WHOLE	1911	% OF WHOLE	1912	% OF WHOLE	1913	% OF WHOLE
Imported Coals	2,279,084	44·981	4,494,752	73·472	3,553,971	53·065	4,203,722	51·477
Saskatchewan "	151,929	2·998	151,929	2·484	151,929	2·269	224,570	2·750
Alberta "	2,635,905	52·022	1,470,881	24·044	2,991,431	46·666	3,737,908	45·773
Total Coals	5,066,918	100·001	6,117,562	100·000	6,697,331	100·000	8,166,200	100·000

	1914	% OF WHOLE	1915	% OF WHOLE	1916	% OF WHOLE	1917	% OF WHOLE	TOTAL OF THE 8 YEARS	% OF WHOLE
Imported Coals	2,570,082	42·051	2,655,420	44·639	3,174,343	41·291	3,981,938	43·370	26,913,899	46·953
Saskatchewan "	224,570	3·674	206,687	3·474	270,000	3·516	324,510	3·546	1,716,182	3·142
Alberta "	3,317,269	54·276	3,086,563	51·886	4,244,075	55·193	4,863,411	52·984	26,347,443	47·905
Total Coals	6,111,921	100·001	5,948,670	99·999	7,688,418	100·000	9,179,315	100·000	54,977,522	100·000

7

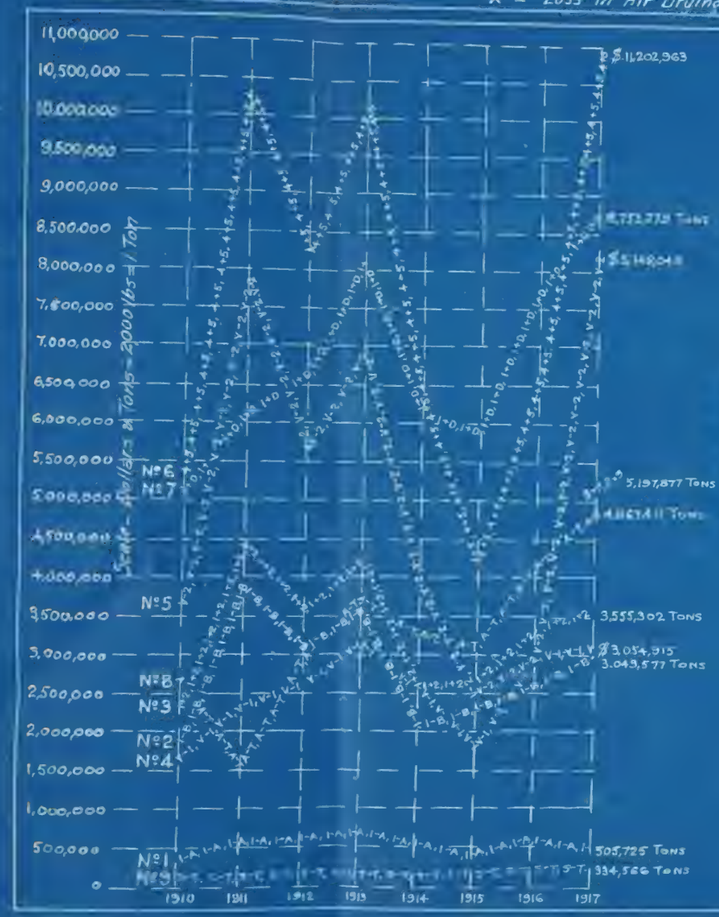
Increase in tonnage of Output in 1917 over 1916, Saskatchewan 23·80 %
" " " " Alberta 14·57 %
" " " " Alta. & Sasks. Combined 15·15 %
" " " " Lignites, Sasks. 23·80 %
" " " " " Alberta 32·50 %
" " " " Bituminous " − 0·81 %
" " " " Anthracite " 14·34 %
" " " " Imported Anthracite − 3·00 %
" " " " " Bituminous 31·80 %

9

COAL STATISTICS

FOR PORTION OF CANADA EXTENDING FROM PORT ARTHUR ON THE EAST TO THE WESTERN LIMIT OF ALBERTA ON THE WEST.

Scale — 1" = 1,500,000 Tons or 1,500,000 Dollars



1. I-A, I-A = Imported Anthracite, tons 2000 lbs.
2. I-B, I-B = " Bituminous "
3. I+2, I+2 = " Total 1+2
4. V-1, V-1 = " Value of Anthracite $
5. V-2, V-2 = " " Bituminous $
6. 4+5, 4+5 = " " Total 4+5
7. I+D, I+D = Tonnage available for Consumption, tons 2000 lbs.
8. A-T, A-T = " Alberta output "
9. S-T, S-T = " Saskatchewan output "

ALBERTA
SASKATCHEWAN

2

COALS, ALBERTA & SASKATCHEWAN 1917

		1	2	3	4
LIGNITE		%	%	%	%
Alberta	2,537,826	48·8239	88·9525	32·4220	
Saskatchewan	334,566	6·4365	11·6475	100·000	100·000
Two Provinces	2,872,392	55·2598	100·0000		
BITUMINOUS					
Alberta	2,206,868	42·4563	100·000	67·3770	100·000
Saskatchewan	0				
Two Provinces	2,206,868	42·4563	100·000		
ANTHRACITE					
Alberta	118,717	2·2839	100·000	2·4419	100·000
Saskatchewan	0				
Two Provinces	118,717	2·2839	100·000		
TOTAL					
All Coals Alberta	4,863,411	93·5635			
" Saskatchewan	334,566	0·4365			
Two Provinces	5,137,977	100·0000			

1. % of Total Output
2. " " " of their Class
3. " " " in the Province
4. " " " of the Province that its Class is

10

ANNUAL INCREASE IN TONNAGE - 2000 lbs. = 1 Ton

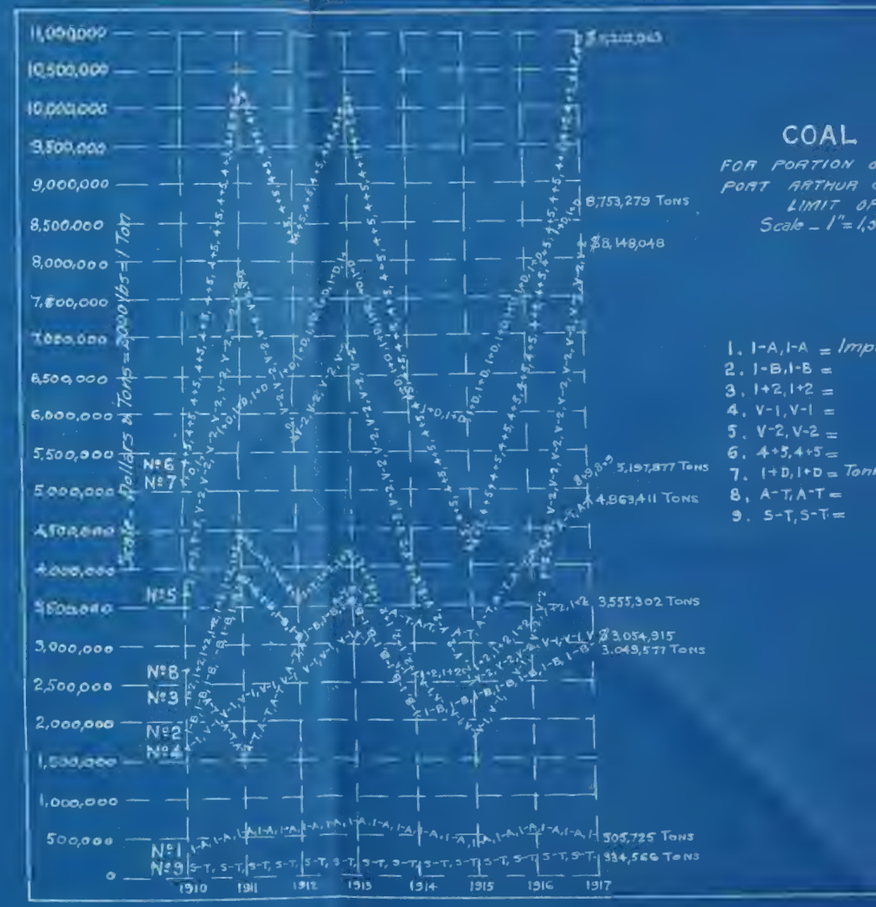
	DOMESTIC COAL PRODUCED		IMPORTED COALS										
YEAR	TONS	% OVER 1910	ALTA.	% OVER 1910	ALTA. SASK. COMBINED	% OVER 1910	ANTHRACITE	% OVER 1910	BITUMINOUS	% OVER 1910	ANTHRACITE & BITUMINOUS COMBINED	% OVER 1910	ALL COALS CONSUMED
1910	1,571,929		2,435,905		2,787,834		361,215		1,917,836		2,279,051		5,066,918	20·74
1911	1,351,929	0	1,419,881	-41·26	1,622,810	-41·80	538,498	49·08	3,956,262	1·0639	4,494,760	97·2	6,117,562	32·15
1912	1,351,929	0	2,391,431	13·50	3,143,360	12·54	536,782	48·60	3,017,218	57·32	3,553,980	55·9	6,697,331	61·17
1913	2,245,570	47·8	3,737,908	41·80	3,962,478	42·14	685,621	89·81	3,518,100	83·45	4,203,721	73·3	8,166,200	20·63
1914	2,245,510	47·8	3,317,269	25·80	3,541,839	26·98	543,570	50·48	2,026,513	5·69	2,570,083	12·7	6,111,921	17·40
1915	2,06,687	36·0	3,086,563	17·10	3,293,250	18·12	356,007	-1·44	2,293,413	19·70	2,655,420	16·5	5,948,670	52·10
1916	2,70,000	71·7	4,244,075	61·01	4,514,075	61·92	583,943	61·66	2,591,000	36·34	3,174,943	39·3	7,689,018	81·17
1917	[illegible]	[illegible]	[illegible]	[illegible]	5,197,577	86·46	566,412	56·85	3,415,526	78·09	3,981,938	74·6	9,179,515	
Total	[illegible]		26,347,449		28,963,683		4,770,048		23,741,068		28,511,116		54,971,536	
Average	[illegible]	[illegible]	2,934,495	34·91	3,607,852	35·03	594,506	48·44	2,848,733	49·53	3,564,891	61·1	6,871,911	35·11

32	Yellowhead Pass. 1	146,949	2·8270	5·90	35·2	48·00	10·90	10,930	G
	" 2			9·20	23·7	53·40	7·50	11·280	G
33	Mountain Park	159,397	2·9511	3·20	30·50	62·00	4·30	14,210	G
	ANTHRACITE								
34	Banff	118,[illegible]	2·[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	E
	SASKATCHEWAN								
	LIGNITE								
1	No 1	2·976	0·0672	20·29	31·41	31·35	16·95		E
	" 2			21·84	35·12	38·64	4·40		E
2		265,886	5·1167	18·00	34·38	30·63	5·78	10,690	10·60
3		60,658	1·1662	18·2	29·85	27·54	11·60	3·650	12·20
4		5,036	0·0965	13·75	38·91	38·54	8·22		

C = McGill University, Investigation by Porter, Durley, & Others, No 83 Vol 3
D = Mines Branch, No 231 - 1915
E = Memoir 53, No 44, Geo. Surv. D.B. Dowling 1914
G = Various Sources believed by Compiler as fairly reliable.
M = Moisture. A = Ash
V = Volatile Combustible B.T.U = British Thermal Units.
F = Fixed Carbon X = Loss in Air Drying.

INDEX TO GRAPH - No 34

1. General Map showing Coal Mining Areas of Alberta and Saskatchewan, see legend
2. Output and quality in each Province for 1917.
3. Imports Anthracite & Bituminous - Tonnage and value of each - Authority, Customs Returns to 31st March 1910-18.
4. Combined Tonnage of Imported Anthracite and Bituminous, giving the % Anthracite is in both tonnage and value of the whole. Increase 1917 over 1916
5. Analysis of Imported Coals.
6. Total Tonnage, Domestic and Imported, % each is of the whole 1910-17
7. Increase of Domestic Coal production 1917 over 1916
8. Output of Coals for 1917 as per the Report of the Chief Inspector of Mines for each Province. Also Analysis, giving Authority for same.
9. Graph, showing Imported Coals, tonnage and values, Also Domestic output tonnage 1910-17.
10. Annual increase in production - Importation and Consumption 1910-17.



COAL
FOR PORTION
PORT ARTHUR
LIMIT
Scale - 1" = 1,

1. I-A, I-A =
2. I-B, I-B =
3. I+2, I+2 =
4. V-1, V-1 =
5. V-2, V-2 =
6. 4+5, 4+5 =
7. I+D, I+D =
8. A-T, A-T =
9. S-T, S-T =

UAA-1974-169-2100-009-006

GRAPH OF

COAL STATISTICS

LYING BETWEEN PORT

AND THE WESTERN LIME

Scale – 1" = 500000 tons

10500000

10000000

9500000

9000000

8500000

8000000

7500000

7000000

6500000

6000000

5500000

5000000

4500000

Total tonnage available for Consumption
Imported and Domestic production combined

Value of N°s 4 & 5 combined in Dollars

Value = 2000 Dollars = 1 Inch

N°6

N°7

GRAPH OF

COAL STATISTICS PART OF CANADA

LYING BETWEEN PORT ARTHUR ON THE EAST
AND THE WESTERN LIMIT OF ALBERTA ON THE WEST

Scale 1" = 500000 tons or 500000 dollars

Total tonnage available for Consumption
Imported and domestic production combined

Value of No 4 = 5 combined in Dollars

Total Tonnage from Alberta

Net Total Combined in Tons

Value of Imported Bituminous in Dollars

Value of Imported Anthracite in Dollars

Imported Bituminous in Tons

Imported Anthracite in tons

Total Tonnage from Saskatchewan

1912 1913 1914 1915 1916

Scale - Dollars & Tons

No 6
No 7
No 5
No 8
No 3
No 2
No 4
No 1
No 9

1910
1911
1912
1913
1914
1915
1916

Total Tonnage from Alberta

Nos 1 to 7 Combined in Tons

Value of Imported Bituminous in Dollars

Value of Imported Anthracite in Dollars

Imported Bituminous in Tons

Imported Anthracite in Tons

Total Tonnage from Saskatchewan

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UAA- 1974-

GRAPH OF

COAL STATISTICS, PART OF C

LYING BETWEEN PORT ARTHUR ON T
AND THE WESTERN LIMIT OF ALBERTA ON

Scale 1" = 500000 when tonnage is Specified
" = 20% " percentage "

Alberta 1916

Coals - Alberta 1916
Output at points
Solely C.P.R.

Coals - Alberta 1916
Output at points
Solely C.N.R.

Coals - Alberta 1916
Output at points
Solely G.T.P.

Coals - Alberta 1916
Output at points
Solely C.P.R. Combined

5000000
4500000
4000000
3500000
3000000
2500000

GRAPH OF

COAL STATISTICS: PART OF CANADA

LYING BETWEEN PORT ARTHUR ON THE EAST AND THE WESTERN LIMIT OF ALBERTA ON THE WEST

Scale 1" = 500,000 when tonnage is Specified
" = 20% " percentage " "

Coals: Alberta 1916
Output at points
Solely C.P.R.

Coals: Alberta 1916
Output at points
Solely C.N.R.

Coals: Alberta 1916
Output at points
Solely G.T.P.

Coals: Alberta 1916
Output at points
on G.T.P. & C.N.R.

Coals: Alberta 1916
Output at Points
on C.P.R. & C.N.R.

Coals: Alberta 1916
Output at Points
on C.P.R., C.N.R. & G.T.P.

Coals. Alberta 1916
Output at points
Solely G.T.P.

Coals. Alberta 1916
Output at points
Solely G.T.P.

Coals. Alberta 1916
Output at points
on G.T.P. & C.N.R.

Coals Alberta 1916
Output at points
Solely G.T.P.

Coals Alberta 1916
Output at points
Solely G.T.P.

Coals Alb
Output at
on G.T.

3000000
2500000
2000000
1500000
1000000
500000

Output Sold
Output Sold
Output Sold
Output Sold

Fr 1033

UAA-1994-169-2100-001-008

Canada
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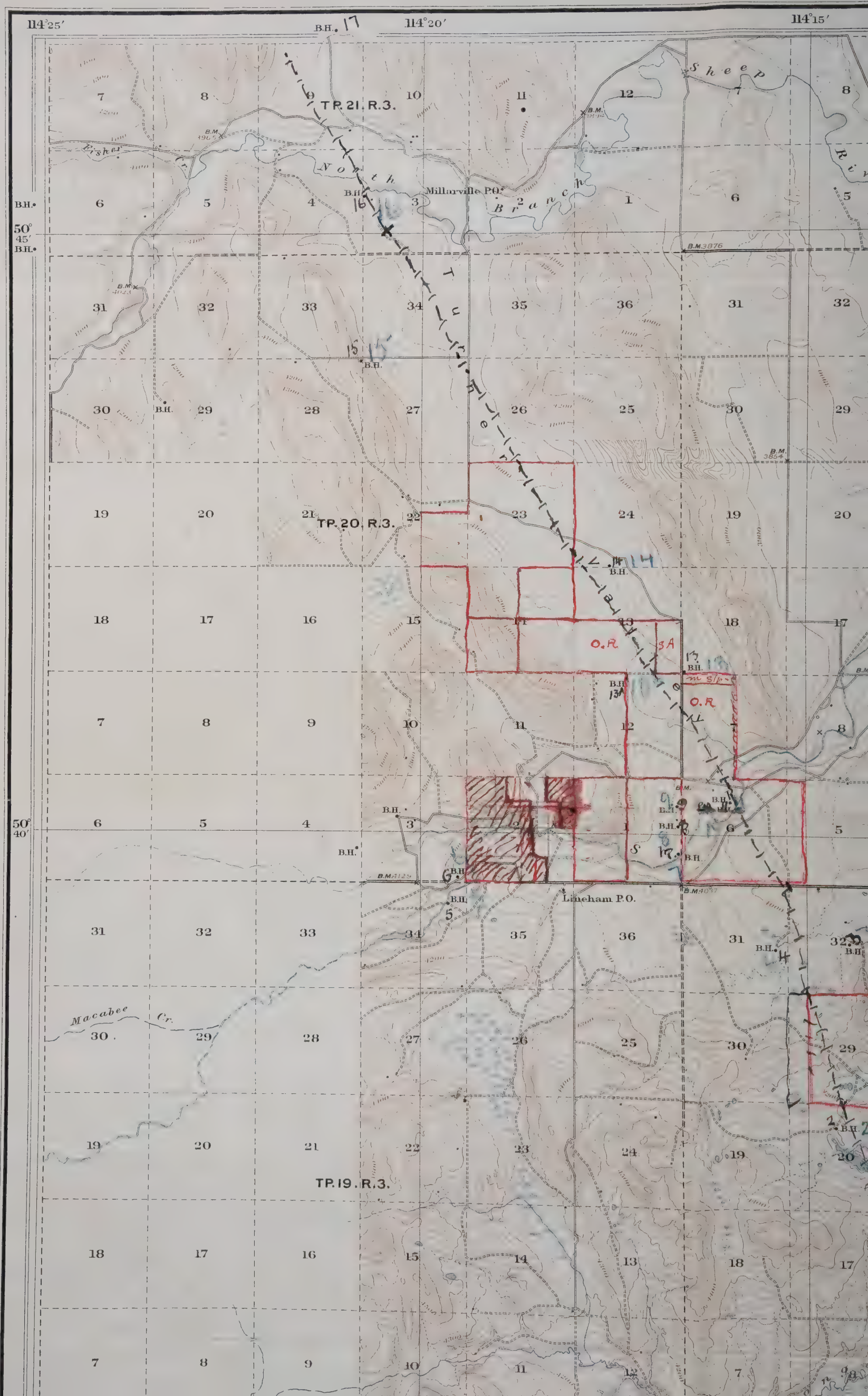
HON. MARTIN BURRELL, MINISTER; R.G. McCONNELL, DEPUTY MINIST

GEOLOGICAL SURVEY

WILLIAM McINNES, DIRECTING GEOLOGIST.



Canada
Department of Mines

CHARLES CAMSELL, MINISTER; R.G. McCONNELL, DEPUTY MINISTER.

GEOLOGICAL SURVEY

WILLIAM McINNES, DIRECTING GEOLOGIST

LEGEND

Culture

- Buildings
- Roads along township boundaries
- Roads (well travelled)
- Roads (not well travelled)
- Bridges
- Churches
- Schools
- Post Offices
- Shafts
- Tunnels
- • B.H. Bore-holes
- × Prospects
- × B.M. Bench-marks
- Township boundaries
- Section lines
- 12 Section numbers

Water

- Rivers and ponds
- Watercourses (with intermittent flow)
- Springs
- Marshes

Relief

- Contours (showing land forms and elevations above sea level) Interval 20 feet.
- Depression contours

Roads
(not well travelled)

Bridges

Churches

Schools

Post Offices

Shafts

Tunnels

Bore-holes

Prospects

Bench-marks

Township boundaries

Section lines

Section numbers

Water

Rivers and ponds

Watercourses
(with intermittent flow)

Springs

Marshes

Relief

Contours
(showing land forms and elevations above sea level)
Interval 20 feet.

Depression contours

River bars

Approximate magnetic declination, 25°20' East

Correction:- *For elevations above sea-level, add 2 feet.*

gitude West from Greenwich 114°15′ 114°10′

Publication No. 1336

MAP 115 A
(Issued 1918)

SHEEP RIVER

,AND 21, RANGES 2 AND 3, WEST OF FIFTH MERIDIAN)

ALBERTA

Scale, 1/62,500

Miles 0 1 2 3

Kilometres 0 1 2 3 4 5

Note. For practical purposes assume
1 MILE TO 1 INCH

TOPOGRAPHY

E.E.FREELAND,(NORTH-HALF) 1914.
C.H.FREEMAN,(SOUTH-HALF) 1915.

1/ Axis of Anticline

TP. 20. R. 3.

TP. 19. R. 3.

Lineham P.O.

Macabee Cr.

Ings Creek

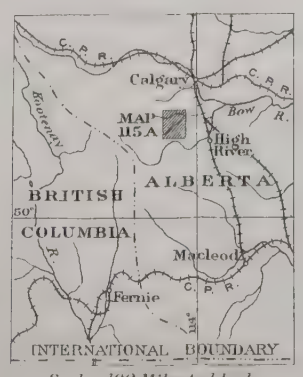
O.R

114°25′ 114°20′ Longitude West from Greenwich 114°15′

50° 40′

50° 35′

C.O.Senécal, *Geographer and Chief Draughtsman.*
A.Braidwood, *Draughtsman.*



Scale, 100 Miles to 1 Inch

MAP 115A
(Issued 1918)

SHEEP RIVER

(TOWNSHIPS 19, 20, AND 21, RANGES 2 AND 3, WEST OF FIFT

ALBERTA

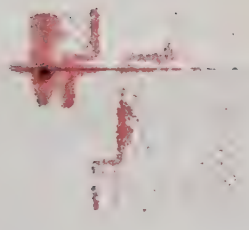
Scale, 1/62,500

Miles 1 ¾ ½ ¼ 0 1 2

Kilometres 1 0 1 2 3 4

Note. For practical purposes assume
1 MILE TO 1 INCH

From T-3



Canada
Department of Mines

Hon L.C. Gerre, Minister. R.G. McConnell, Deputy Minister

GEOLOGICAL SURVEY

LEGEND

Areas of coal bearing strata

Coal occurrences

I XXIII
Numbers relating to
Diagrams contained in Memoir

DIAGRAMS

I.– Crowsnest and Elk River coal-areas

II.– Flathead coal-areas

III.– Cowichan Basin and Nanaimo coal-field

IV.– Comox coal area

V.– Suquash coal-area

VI.– Quatsino Sound coal-area

VII.– Koskeemo coal area

VIII.– Graham Island coal areas

IX.– Kispiox and Shegunia coal areas

X.– Telkwa River coal-areas

XI.– Clark Fork coal-areas

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Department of Mines
HON. L. C. DERRE, MINISTER, R. G. McCONNELL, DEPUTY MINISTER
GEOLOGICAL SURVEY

Y U K O N
B R I T I S H
C O L U M B I A
A L B E R T A
PEACE RIVER BLOCK
ROCKY MOUNTAINS
Hazelton
Prince Rupert
Fort George
Buffalo Head Hills
Athabaska
EDMONTON
Peace River
Black River
Hay River
Hay Lakes
Great Slave Lake
Lesser Slave Lake
Babine Range
Telegraph Creek
Cariboo
Cone Mt
Perelesbin Mt
Saddle Mt
Big Mt
Devils Thumb
Revillagigedo I
Dixon Entrance
Queen Charlotte Islands
Elsie Mt
Crater Mt
Spruce Mt
Sifton Pass
Trutch
Fort St John
Dunvegan
Grande Prairie
Peace River
Fairview
Pouce Coupe
Dawson Creek
Fort Nelson
Fort Simpson
Fort Smith
Fort Resolution
Fort Chipewyan
Fort Vermilion
Fort Providence
Fort Liard
Fort Wrigley
Fort Norman
Fort Good Hope
Arctic Red River
Mackenzie River
Liard River
Nahanni River
Great Bear Lake
Great Slave Lake
Lesser Slave Lake
Athabaska
Peace River
Hay River
Hay Lakes
Buffalo Head Hills
Cariboo
Babine Range
Telegraph Creek
Hazelton
Prince Rupert
Fort George

MAP 139A
(Issued 1915)

Coal-fields
of
BRITISH COLUMBIA

Scale, 1/2,217,600

Miles 25 20 15 10 5 0 25 50 75 100 125 150

Kilometres 50 40 30 20 10 0 50 100 150 200

35 MILES TO 1 INCH

Base map from engraved plates of the Department of the Interior.
1412

131 130 129 128 127 126 125 124 Longitude West 123. from Greenwich 122 121 120 119 118 117 116 115

53 52 51 50 49 48

VI.– Quatsino Sound coal area

VII.– Koskreemo coal-area

VIII.– Graham Island coal-areas

IX.– Kispiox and Shegunia coal-areas

X.– Telkwa River coal-areas

XI.– Clark Fork coal-areas

XII.– Chisholm Creek coal area

XIII.– Groundhog coal-area

XIV.– Atlin coal-areas

XV. Peace River coal area

XVI. White Lake coal area

XVII. Princeton coal-area

XVIII.– Tulameen coal area

XIX.– Nicola and Quilchena coal-areas

XX.– Kamloops Lake coal-areas

XXI.– Hat Creek coal-areas

XXII.– Coal Creek (North Thompson River) coal area

XXIII.– Liard River coal areas

C. O. Semeral, *Geographer and Chief Draughtsman.*
A. Joanes, *Draughtsman*

To accompany Memoir by D. B. Dowling

MAP 139A
(Issued 1915)

Coal-fields of BRITISH COLUMBIA

Scale, 1/2,217,600

Miles 25 20 15 10 5 0 — 25 50 75 100 125 150

Kilometres 50 40 30 20 10 0 — 50 100 150 200

35 MILES TO 1 INCH

C-7

Coal areas / Canada

676

Dear Sir-,

Our Tax A

necessity of redeeming t

from Tax Sale Proceedin

Canada
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GEOLOGICAL SURVEY

Canada
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GEOLOGICAL SURVEY

HUDSON BAY
HUDSON STRAIT
Southampton I.
Baffin Land
Nottingham I.
Charles I.
Mansfield I.
Marble I.
Rankin Inlet
Chesterfield Inlet
Repulse Bay
Melville Peninsula
Fox Channel
Ungava Bay
Ungava
Labrador
Hamilton Inlet
Hamilton River
Saglek Bay
Nain
Okak
Cape Chidley
Port Nelson
York Factory
Churchill
Churchill River
Nelson River
C. Churchill
C. Henrietta Maria
Reindeer Lake
Lake Winnipeg
Winnipeg
Manitoba
Saskatchewan
Alberta
Prince Albert
Regina
L. Manitoba
Assiniboine River
Qu'Appelle River
Red River
Pembina
Dakota
Minnesota
Wisconsin
Iowa
Nebraska
Chicago
Milwaukee
Madison
St. Paul
Des Moines
Omaha
Platte River
Cheyenne
JAMES BAY
Akimiski I.
East Main River
Rupert River
Nottaway River
Moose R.
Albany River
Severn River
Attawapiskat R.
Lake Nipigon
Lake Abitibi
L. Temiscaming
Ontario
Quebec
Three Rivers
Ottawa
Ottawa R.
Montreal
Kingston
Toronto
Buffalo
Detroit
Lansing
Harrisburg
Philadelphia
Trenton
New York
Pennsylvania
New Jersey
Maryland
Virginia
Boston
Providence
Connecticut
Massachusetts
Vermont
New Hampshire
Maine
LAKE SUPERIOR
LAKE MICHIGAN
LAKE HURON
LAKE ERIE
LAKE ONTARIO
Sault Ste. Marie
Georgian Bay
Lake of the Woods
Rainy R.
Lake Winnipegosis
Lake Manitoba
Lake Athabaska
Great Slave Lake
Reindeer Lake
Peace River
Athabaska River
Mackenzie River
Fort Simpson
Fort Resolution
Fort McMurray
Chipewyan
Athabaska Lake
Dubawnt L.
Lake
Hudson Bay
Ungava
Labrador
Newfoundland
St. Johns
C. Race
C. Ray
Magdalen Is.
North Cape
Cape Breton I.
Sydney
Prince Edward Is.
Charlottetown
Anticosti I.
Gulf of St. Lawrence
St. Lawrence River
Nova Scotia
New Brunswick
St. John
Halifax
Sable I.
Bay of Fundy
Cape Rosier
Gaspé
Cape Bauld
Pistolet Bay
Strait of Belle Isle
Hare Bay
Notre Dame Bay
Bonavista Bay
Trinity Bay
Conception Bay
Placentia Bay
St. Mary's Bay
Fortune Bay
Hermitage Bay
Burgeo
Port aux Basques
St. George's Bay
Bay of Islands
Grand Lake
Lake Melville
Hopedale
Nain
Okak
Cape Chidley
Port Burwell
Cape Wolstenholme
Hudson Strait
Baffin Land
Mansfield I.
Southampton I.
Bell I.
Nottingham I.
Charles I.
Repulse Bay
Melville Peninsula
Fox Channel
Marble I.
Rankin Inlet
Chesterfield Inlet
Dubawnt L.
Lake
Great Slave Lake
Reindeer Lake
Lake Athabaska
Athabaska River
Peace River
Mackenzie River
Fort Simpson
Fort Resolution
Fort McMurray
Chipewyan
Athabaska Lake
Churchill River
Nelson River
Port Nelson
York Factory
C. Churchill
C. Henrietta Maria
Hudson Bay
Ungava Bay
Labrador
Hamilton Inlet
Hamilton River
Saglek Bay

COAL AREAS OF CANADA

By D. B. DOWLING

Anthracite and Bituminous Known Areas

Anthracite and Bituminous Probable Coal Areas

Sub-bituminous Coal Areas

Lignite Areas

Probable Lignite Areas

Scale of statute miles

100 50 25 0 100 200 300 400 500 600

130° 125° 120° 115° 110° 105° *Longitude* 100° *west* 95° *from* 90° *Greenwich* 85°

50° 45° 40°

To accompany Memoir by D. B. Dowling.

MAP 125 A

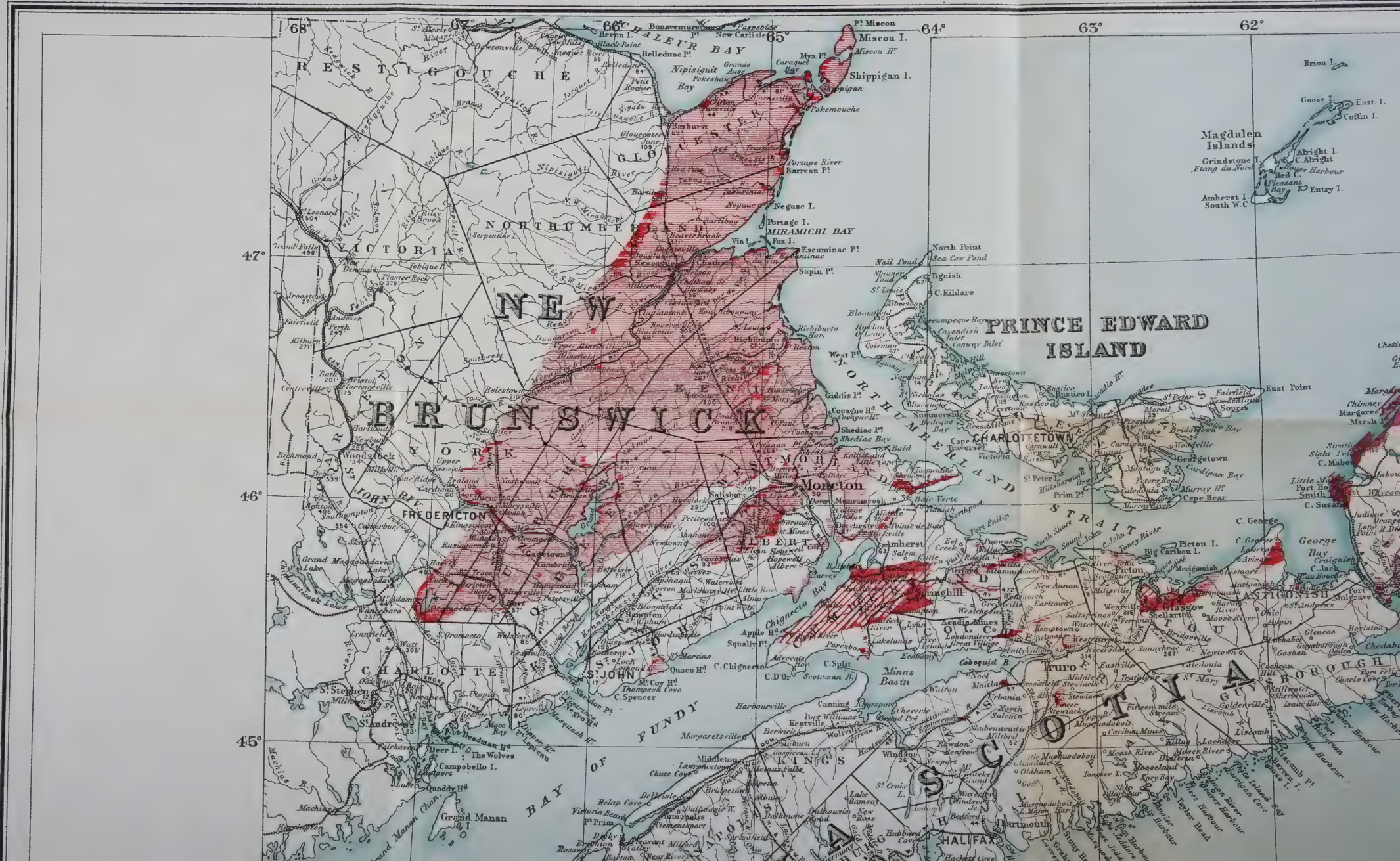
(*Issued 1914*)

979

to the

Canada
Department of Mines
HON. L. CODERRE, MINISTER; R.W. BROCK, DEPUTY MINISTER.

GEOLOGICAL SURVEY


68°
67°
66°
65°
64°
63°
62°
47°
46°
45°
RESTIGOUCHE
GLOUCESTER
NORTHUMBERLAND
VICTORIA
NEW BRUNSWICK
YORK
SUNBURY
QUEENS
KINGS
ALBERT
WESTMORLAND
CUMBERLAND
CHARLOTTE
ST JOHN
RESTIGOUCHE
CHALEUR BAY
Nipisiguit Bay
MIRAMICHI BAY
Chignecto Bay
BAY OF FUNDY
NORTHUMBERLAND STRAIT
PRINCE EDWARD ISLAND
NOVA SCOTIA
ANTIGONISH
GUYSBOROUGH
COLCHESTER
PICTOU
Pt Miscou
Miscou I.
Shippigan I.
Shippigan
Pokemouche
Portage River
Barrean Pt
Neguac I.
Portage I.
Fox I.
Escuminac Pt
Sapin Pt
Tignish
C. Kildare
North Point
Sea Cow Pond
Nail Pond
East Point
CHARLOTTETOWN
Georgetown
Murray Hr
Cape Bear
Pictou I.
Big Caribou I.
Brion I.
Goose I.
East I.
Coffin I.
Magdalen Islands
Grindstone I.
Etang du Nord
Abright I.
C. Abright
Lower Harbour
Red C.
Pleasant Bay
Entry I.
Amherst I.
South W.C.
Bonaventure
Paspebiac
New Carlisle
Belledune Pt
Dalhousie
Campbellton
Black Point
Petit Rocher
Gloucester Junc
Tracadie
Red Pine
Burnsbay
Vin I.
Chatham
Newcastle
Millerton
Escuminac
Richibucto
Coleman
Giddis Pt
Cocagne Hd
Shediac Pt
Shediac Bay
Moncton
Salisbury
Petitcodiac
Hillsborough
Dorchester
Sackville
Amherst
Springhill
Parrsboro
Apple Hd
Squally Pt
C. Chignecto
C. D'Or
Scotsman B.
Minas Basin
Truro
Londonderry
Great Village
Acadia Mines
Tatamagouche
Wallace
Pugwash
Malagash
Caribou Mines
Stellarton
Glasgow
Westville
New Glasgow
Pictou
Merigomish
Antigonish
Guysborough
Port Mulgrave
Canso
Cape Breton
Sydney
Louisburg
Fredericton
Woodstock
Grand Falls
Edmundston
St Leonard
Grand Falls
Tobique R
Nepisiguit R
Gaspereau R
Jacquet R
Upsalquitch R
Restigouche R
Gloucester Junc
Bathurst
Caraquet
Caraquet Bay
Grande Anse
Pokeshaw
Petit Rocher
Belledune
Dalhousie
Campbellton
Dawsonville
Mills
Matapedia
St Alexis
Chaleur

Canada
Department of Mines

HON. L. CODERRE, MINISTER; R.W. BROCK, DEPUTY MINISTER.

GEOLOGICAL SURVEY

PLATE 2

65°
64°
63°
62°
61°
60°
59°
47°
46°
45°
PRINCE EDWARD ISLAND
CAPE BRETON ISLAND
NOVA SCOTIA
NEWFOUNDLAND
CABOT STRAIT
NORTHUMBERLAND STRAIT
CHALEUR BAY
MIRAMICHI BAY
Magdalen Islands
Brion I.
Goose I.
East I.
Coffin I.
Grindstone I.
Etang du Nord
Alright I.
C. Alright
Red C.
Pleasant Bay
Entry I.
Amherst I.
South W.C.
Harbour Harbour
Larkin Pt.
C. Ray
Port aux Basques
Bed Bay
Burnt Is.
St Paul I.
St Lawrence Bay
Cape North
Red Cape
White C.
C. Rouge
Aspy Bay
Ingonish Bay
Skir Dhu
North Shore
Margaree
Chimney Corner
Marsh
Port Hood
Smith Is.
C. Mabou
C. Susan
Little Mabou
Inverness
Glace Bay
Sydney
Mines
Baddeck
Iona
Scatari I.
Cape Breton
Gabarus Bay
Gabarus Pt.
Lake Ainslie
Bras d'Or Lake
Grand Narrows
Barra Strait
St Esprit
Madame I.
Canso
C. Canso
Whitehaven
Torbay
New Harbour
Port Felix
Charlo Cove
Guysborough
Chedabucto Bay
Goshen
Glencoe
Boylston
Mulgrave
Eddy Pt.
Pictou I.
Big Caribou I.
C. George
George Bay
C. Jack
Pictou
Antigonish
Barney's River
Moose River
Ohio
Aspin
St Andrews
Lochaber
Caledonia
Tatamagouche
Malagash
Wallace
Tidnish
Nail Pond
Sea Cow Pond
North Point
Sapin Pt.
C. Kildare
Escuminac Pt.
Fox I.
Vin I.
Neguac I.
Portage I.
Barreau Pt.
Portage River
Shippigan I.
Shippigan
Pokemouche
Miscou I.
Miscou Pt.
Myra Pt.
Caraquet Bay
Pt. Miscou
Bonaventure
Paspebiac
New Carlisle
Belledune Pt.
Nipisiguit Bay
Grande Anse
Pokeshaw
Bathurst
Big Tracadie R.
Tracadie
Red Pine
Portage River
Barreau Pt.
Neguac I.
Portage I.
Fox I.
Escuminac Pt.
Sapin Pt.
Tignish
C. Kildare
Richibucto Har.
Richibucto
Cocagne Hd.
Cocagne
Shediac Pt.
Shediac Bay
Shediac
Cape Tormentine
Cape Traverse
Victoria
Carvell
Carleton
Bedeque Bay
Cavendish
Conway Inlet
Rustico I.
Rustico
Pleasant Hr.
Alberton
Tignish
West Pt.
Giddis Pt.
Summerside
Miscouche
Bloomfield
Richibucto Har.
Richibucto
Coleman
Leary
Hope River
Holland Cove
Cape Egmont
Tyne Valley
Lennox I.
Malpeque Bay
Malpeque
Kensington
Borden
Tignish
Fairfield
New Zealand
Souris
East Point
St Peter
Georgetown
Cardigan Bay
Cardigan
Montague
Peters Road
Caledonia
Murray Hr.
Murray River
Cape Bear
Woodville
Bridgetown
Pisquid
Alexandra
Charlottetown
Hillsborough
Prim Pt.
St Peter I.
Moncton
Salisbury
Petitcodiac
Dorchester
Sackville
Memramcook
Shediac
Cape Tormentine
Amherst
Joggins
Springhill
Parrsboro
Advocate Bay
C. Chignecto
C. Split
C. D'Or
Scotsman B.
Apple Hd.
Squally Pt.
Onaco Hd.
Chignecto Bay
Minas Basin
Truro
Tatamagouche
Pictou
New Glasgow
Stellarton
Westville
Trenton
Abercrombie
Scotsburn
Sunnybrae
Bridgeville
Stewiacke
Brookfield
Maitland
Noel
Walton
Harbourville
Canning
Kentville
Port Williams
Grand Pré
Wolfville
Berwick
Aylesford
Middleton
Lawrencetown
Annapolis
Digby
Weymouth
Yarmouth
Shelburne
Lunenburg
Mahone Bay
Chester
Liverpool
Bridgewater
Lockeport
Shelburne
Barrington
Cape Sable
Clark's Harbour
Pubnico
Yarmouth
Digby
Annapolis
Kentville
Windsor
Hantsport
Newport
Rawdon
Renfrew
Oldham
Tangier L.
Musquodoboit
Musquodoboit Harbour
Moose River
Mooseland
Spry Bay
Ship Harbour
Taylor Head
Sheet Harbour
Halifax
Dartmouth
Bedford
Hubbard Cove
Lake Ramsay
St Croix L.
Windsor Jc.
Milford
Enfield
Elmsdale
Shubenacadie
Milford
Debert
Economy
Five Islands
Parrsboro
Joggins
Amherst
Nappan
Tidnish
Baie Verte
Port Philip
Northport
Pugwash
Wallace
Malagash
Tatamagouche
Earltown
Westchester
Salt Springs
Scotsburn
Sunnybrae
Bridgeville
Stellarton
Westville
Trenton
Abercrombie
New Glasgow
Pictou
Caledonia
Lochaber
Lismore
Goldenville
Sherbrooke
Isaac Harbour
Port Dickson
Whale Harbour
Lismore Pt.
Harrigan Cove
White Island Bay
Sheet Harbour
Taylor Head
Ship Harbour
Spry Bay
Tangier L.
Musquodoboit
Musquodoboit Harbour
Moose River
Mooseland
Oldham
Windsor
Hantsport
Newport
Rawdon
Renfrew
Kentville
Port Williams
Grand Pré
Wolfville
Berwick
Aylesford
Middleton
Lawrencetown
Annapolis
Digby
Weymouth
Yarmouth
Shelburne
Lunenburg
Mahone Bay
Chester
Liverpool
Bridgewater
Lockeport

COAL FIELDS OF
NOVA SCOTIA AND NEW BRUNSWICK

Bituminous Coal Fields

Measures Containing Coal Seams

Concealed and Submarine Coal Areas

Scale: 35 Miles - 1 Inch

0 5 10 15 20 25 50 75 100

MAP 126 A
(Issued 1914)

Reprinted by permission of the Twelfth International Geological Congress, from the Atlas accompanying the Coal Resources of the World.

COAL FIELDS OF
NOVA SCOTIA AND NEW B
Bituminous Coal Fields
Measu Coal S
Concealed and Subma Coal Areas
Scale: 35 Miles - 1 Inch
0 5 10 15 20 25 50 75
BRUNSWICK
NOVA SCOTIA
PRINCE EDWARD ISLAND
BAY OF FUNDY
NORTHUMBERLAND STRAIT
ANTIGONISH
GUYSBOROUGH
CHARLOTTETOWN
FREDERICTON
ST JOHN
HALIFAX
SHELBURNE
Yarmouth
Moncton
Amherst
Pictou
Truro
Windsor
Digby
Liverpool
Lunenburg
Annapolis Royal
Grand Manan I.
Campobello I.
Deer I.
The Wolves
Seal I.
Cape Sable I.
Tusket I.
Long I.
Brier I.
Sable I.
Cape Tormentine
East Point
Cape Bear
Pictou I.
Big Caribou I.
Cape Traverse
Shediac
Shediac Bay
Shediac Pt
Coccagne
Coccagne Pt
Giddis Pt
Richibucto
Richibucto Har.
Richibucto Pt
Kouchibouguac
Escuminac
Escuminac Pt
Miramichi
Chatham
Newcastle
Douglastown
Bathurst
Dalhousie
Campbellton
Restigouche
Metapedia
Matapedia
Cascapedia
Gaspe
Gaspe Bay
Percé
Percé Rock
Bonaventure I.
Bonaventure
Paspebiac
New Carlisle
Port Daniel
Cape Chat
Mont Louis
Grand River
Malbaie
Cape Gaspe
Cape Rosier
Cape Despair
Cape Gaspe Pt
Cape Bon Ami
Cape Anguille
Cape Ray
Port aux Basques
Codroy
Codroy Pond
Bay St George
Port au Port
Port au Port Bay
Stephenville
Stephenville Crossing
Bay of Islands
Humber R.
Humber Arm
Corner Brook
Deer Lake
Grand Lake
Lake Ainslie
Lake Bras d'Or
Baddeck
Sydney
Sydney Harbour
Glace Bay
Louisburg
Cape Breton
Cape North
Cape St Lawrence
Cape Ingonish
Ingonish
Aspy Bay
Cape Dauphin
Cape Mabou
Mabou
Port Hood
Margaree
Chimney Corner
Port Hastings
Port Hawkesbury
Canso
Strait of Canso
Guysborough
Country Harbour
Tor Bay
Sheet Harbour
Halifax Harbour
Dartmouth
Bedford
Bedford Basin
Eastern Passage
Lawrencetown
Musquodoboit Harbour
Musquodoboit
Tangier
Moser River
Truro
Onslow
Great Village
Londonderry
Acadia Mines
Parrsboro
Advocate Harbour
Cape Chignecto
Chignecto Bay
Minas Basin
Minas Channel
Cobequid Bay
Cape Split
Scotsman Bay
Apple River
Joggins
Amherst
Wallace
Tidnish
Nappan
Oxford
Pugwash
Wallace Harbour
Tatamagouche
Malagash
Wood Islands
Pictou
Merigomish
New Glasgow
Stellarton
Westville
Trenton
Thorburn
Pictou Harbour
Caribou Harbour
Caribou Mines
Lochaber
Lochaber Lake
Antigonish
Arisaig
Malignant Cove
Port Hood
Mabou
Inverness
Broad Cove
Lake Ainslie
Baddeck
Bras d'Or
Sydney
Sydney Harbour
Glace Bay
Louisburg
Cape Breton
Cape North
Cape St Lawrence
Ingonish
Aspy Bay
Cape Dauphin
Cape Mabou

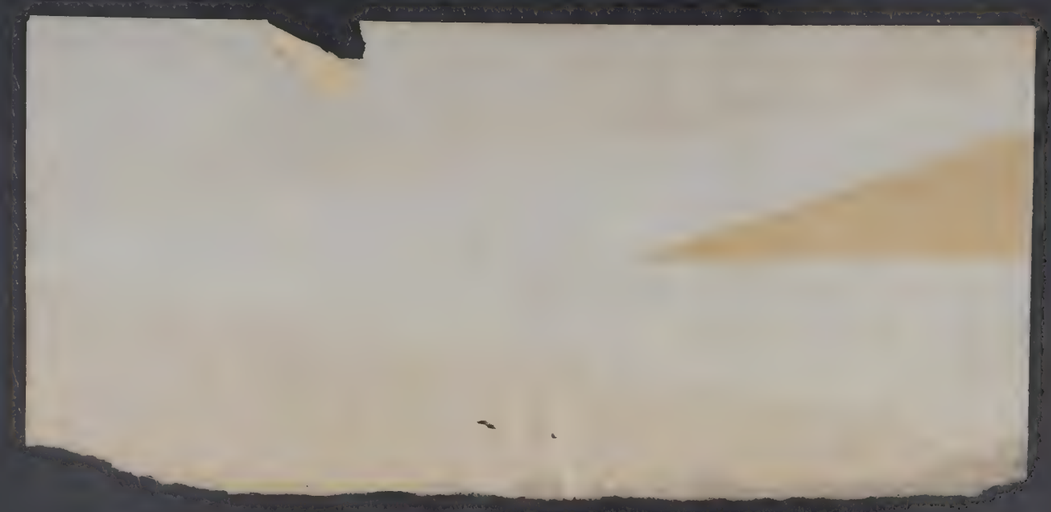
Coal Fields B.C.
Photographic Co. Ltd.

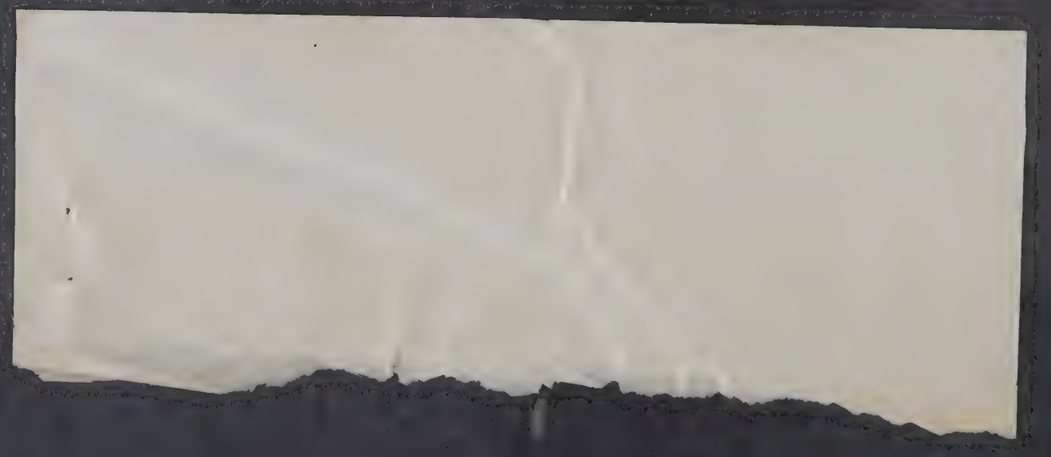
...he

Big Horn Coal
Basin
Bill Lee's Horse Barn

Dear Sir-,

necessity o...
from Tax...





Canad
Department o
GEOLOGICAL
HON. W TEMPLEMAN, MINISTER, A
R.W BROCK,
1910

LEGEND

QUATERNARY

PLEISTOCENE AND RECENT

Q — Glacial and river drift.

MESOZOIC

UPPER CRETACEOUS

K6 — Brazeau sandstones, shales and conglomerates

K5 — Wapiabi shales

K4 — Bighorn sandstones and conglomerates

K3 — Blackstone shales

K2 — Dakota sandstones and shales

LOWER CRETACEOUS

K1 — Kootanie formation (coal-bearing)
(Siliceous and shaly sandstones, black shales, coal and conglomerates)

JURASSIC

J — Fernie formation
(Shales with a bed of quartzose sandstone)

TRIASSIC

R — Upper Banff shale
(with a thin bed of white limestone)

PALAEOZOIC

DEVONIAN TO PERMIAN

C-P — Rocky Mountain quartzite, (Permian?)
Upper Banff limestone, (Carboniferous)
Lower Banff shale, (Carboniferous?)

D — Lower Banff limestone / Intermediate Beds } Probably Devonian
(dolomites)

Symbols

GEOLOGY, RECONNAISSANCE

anada

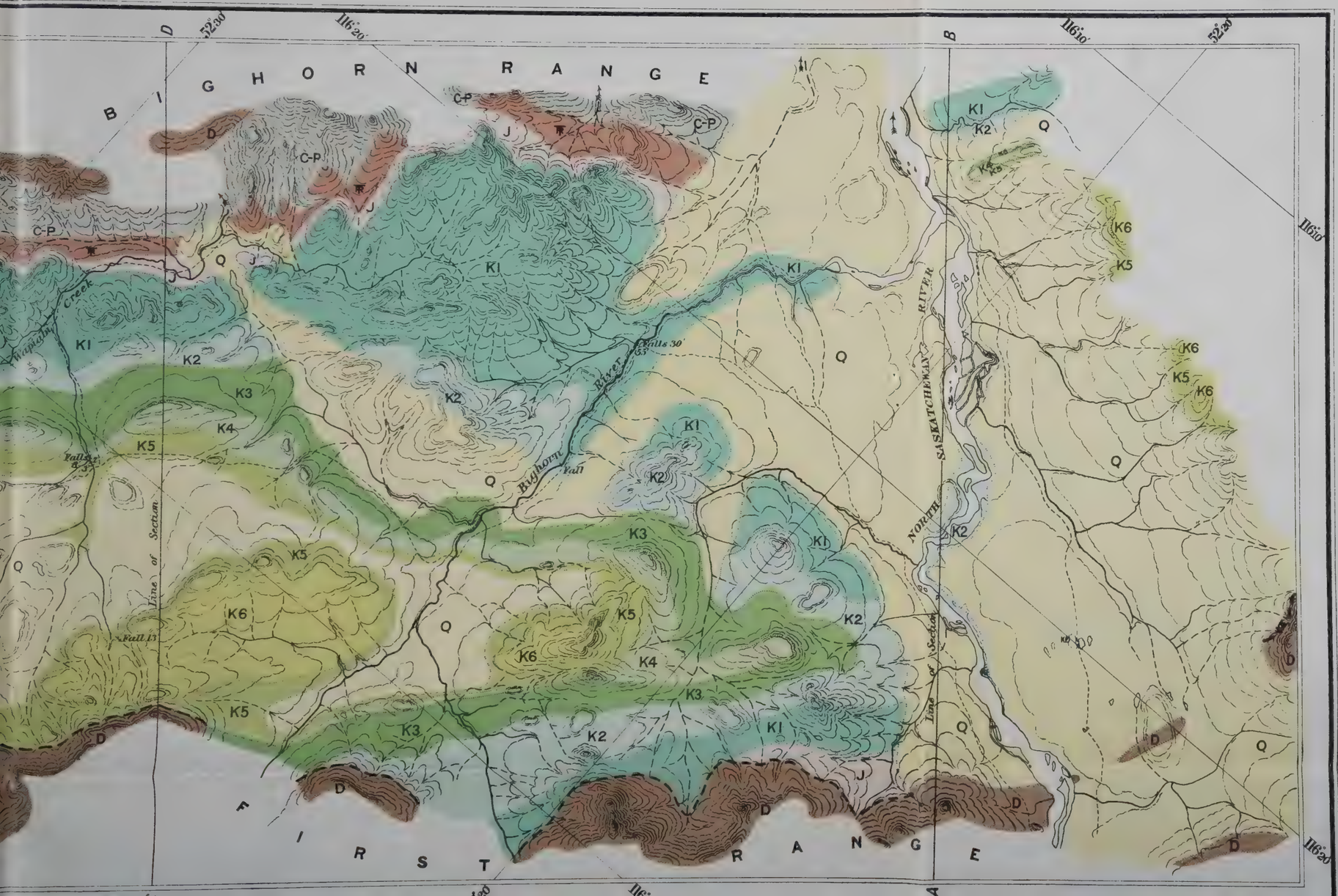
ent of Mines

GICAL SURVEY.

NISTER, A.P. LOW, DEPUTY MINISTER.
. BROCK, DIRECTOR.

1910

ALBERTA



LEGEND

Culture

Trails

Water

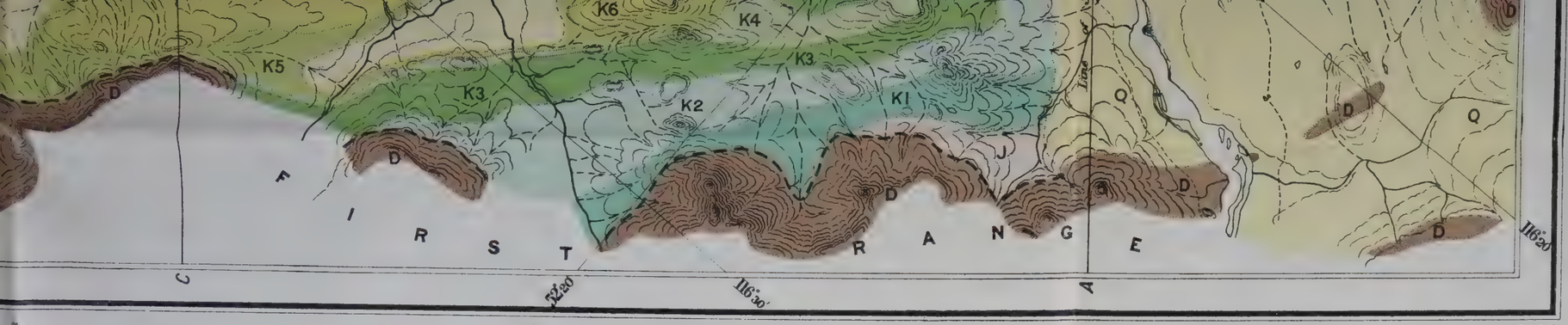
Rivers and Streams
(mapped at high water mark)

Watercourses
with intermittent flow

Relief

Sketched land forms

Magnetic declination about 27° East



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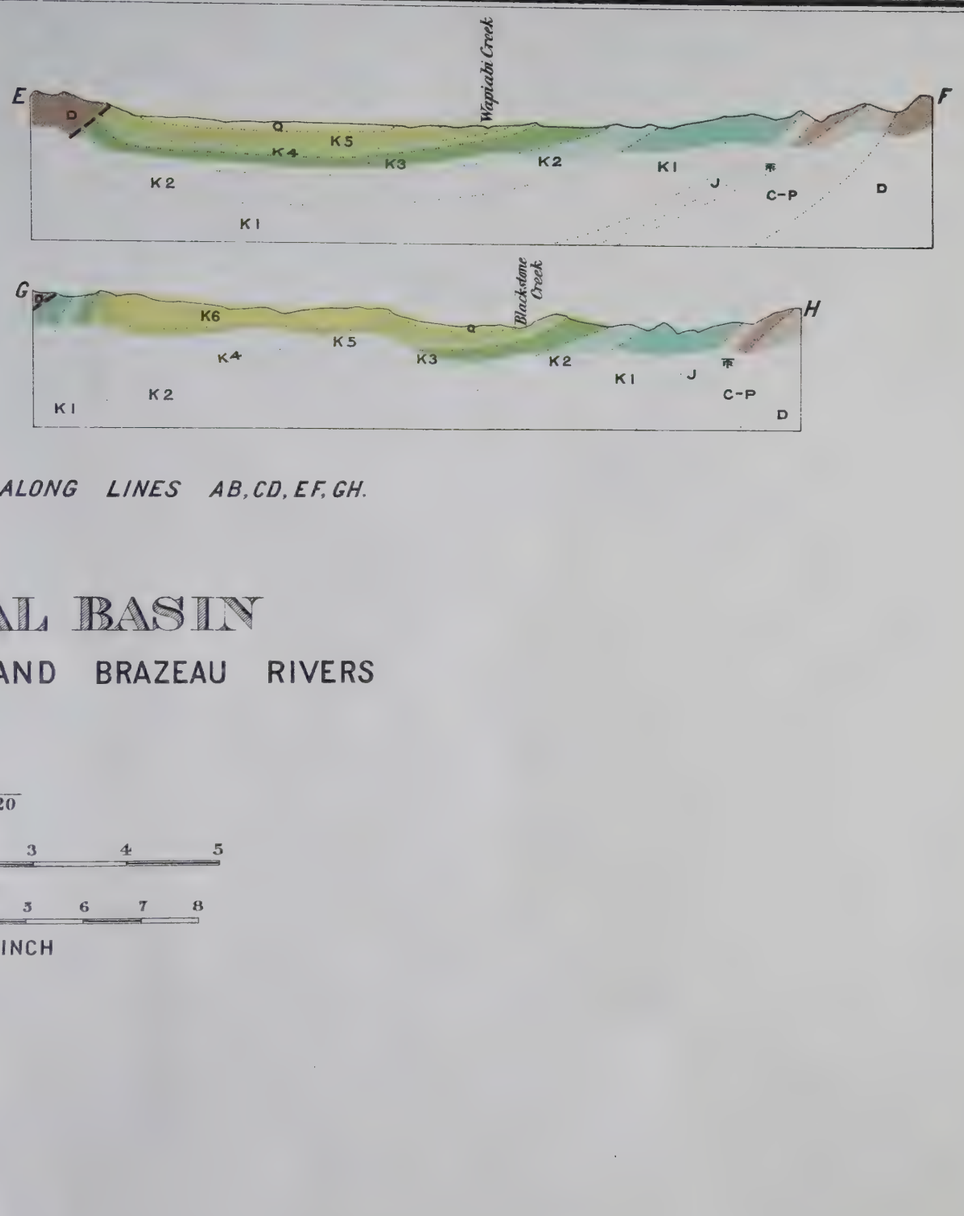
Magnetic declination about 27° East



ECTIONS ALONG LINES AB, CD, EF, GH.

GEOLOGY

G.S. MALLOCH 1908

TOPOGRAPHY

(Sketch, with provisional control)

G.S. MALLOCH 1908
G.S. MALLOCH COMPILER

MAP 7A

COAL BASIN

EWAN AND BRAZEAU RIVERS

ALBERTA

Scale: $\frac{1}{126,720}$

Miles
2 3 4 5

Kilometres
3 4 5 6 7 8

MILES TO 1 INCH

To accompany Memoir No. 9

PALAEOZOIC

DEVONIAN TO PERMIAN

(with a thin bed of white limestone)

C-P

Rocky Mountain quartzite, (Permian?)
Upper Banff limestone, (Carboniferous)
Lower Banff shale, (Carboniferous?)

D

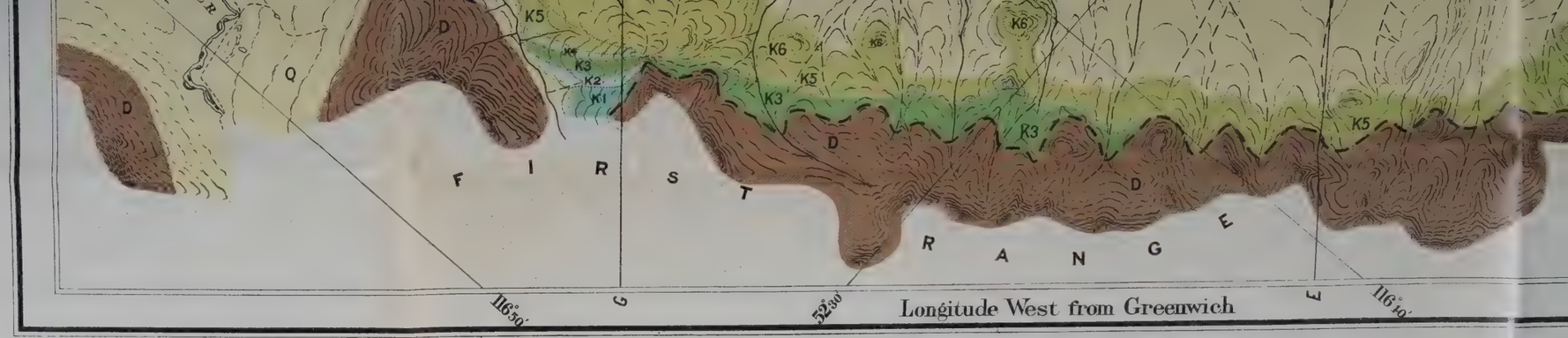
Lower Banff limestone
Intermediate Beds } Probably Devonian
(dolomites)

Symbols

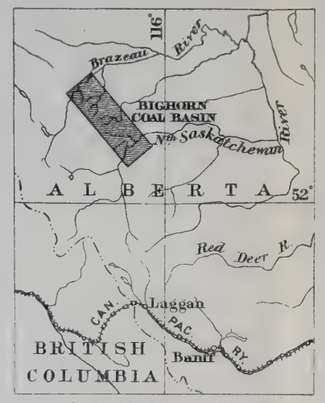
Fault
(approximate)

Geological Boundary
(approximate)

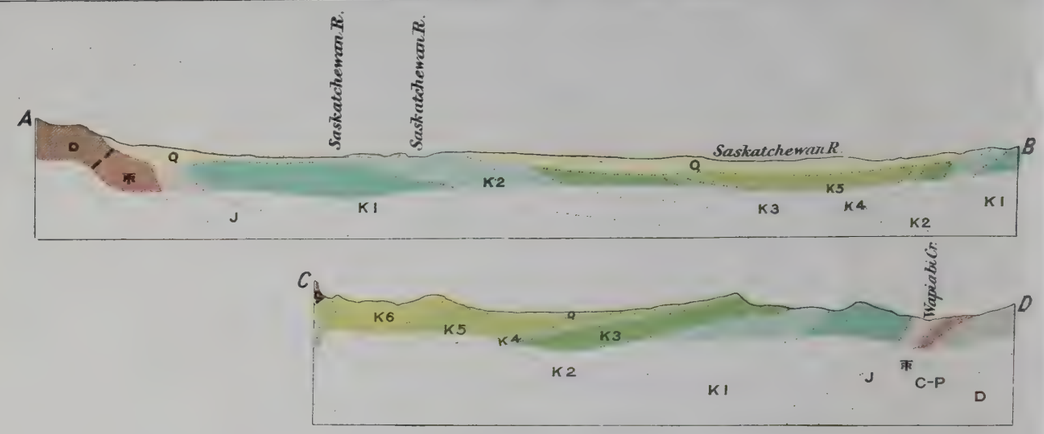
Geological Boundary
(assumed)



C.O.Senécal, *Geographer and Chief Draughtsman.*
R.B.Yorston, *Draughtsman.*



Scale: 70 Miles to 1 Inch



DIAGRAMMATICAL CROSS-SECTIONS

MAP

BIGHORN CO

BETWEEN SASKATCHEWAN

ALBER

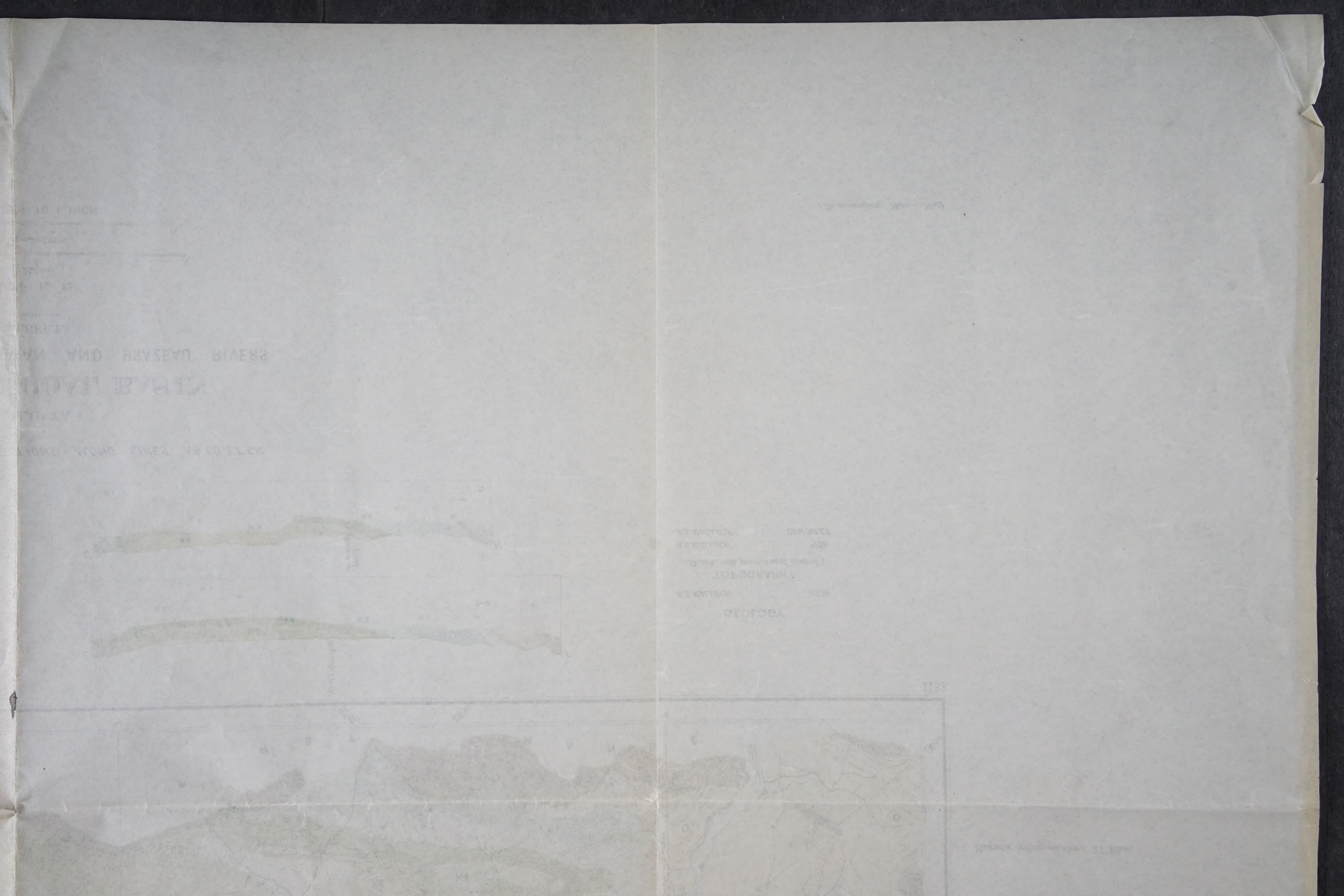
Scale: 12

Miles
1 ¾ ½ ¼ 0 1 2

Kilomet
1 ¾ ½ ¼ 0 1 2 3

2 MILES TO

Geological Maps.
Big Horn Coal Basin.

979

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